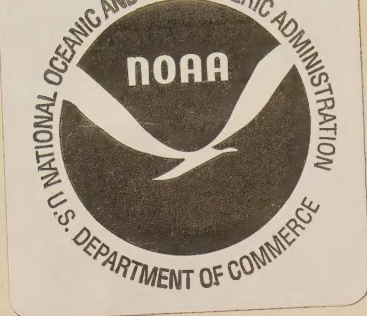


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meteorological observations

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SANCHEZ (SAMANÁ BAY), ST. DOMINGO,

1886-1888.

BY

THE LATE W. REID, M.D.

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ERRATA.

- Page 4. Mean Dry Bulb, 2 p.m., for "1·0" read "81·0."
,, 5. Lower Clouds, 2 p.m., Vel., 4th, insert "4."
,, 17. Mean Wind Force, 6 a.m. and 10 p.m., for "0·1," "—" read "0·6," "0·2."
,, 21. Mean Wind Force, 10 p.m., for "—" read "0·3."
,, 31. Mean Wind Force, 10 p.m., for "—" read "0·6."
,, 37. Mean Wind Force, 10 p.m., for "3·5" read "0·4."
,, 45. Remarks, 30th, for " ∞^0 " read " ∞^0 ."
-

ADDENDA.

In order to complete the Summaries on pp. 63, 64, probable wind observations have been inserted as follows:—

Page 9.	1st, 10 a.m., 2 p.m., and 6 p.m.	-	-	-	"E."
,, 11.	31st, 6 a.m.	-	-	-	"W."
,, 17.	25th, 10 p.m.	-	-	-	"Calm."
,, 21.	29th, 10 p.m.	-	-	-	"Calm."
,, 31.	20th, 10 p.m.	-	-	-	"N 2."

INTRODUCTION.

THE following pages contain a series of Meteorological Observations made by the late W. Reid, M.D., Aberdeen, Medical Officer to the Samaná and Santiago Railway Company, Limited, at Sanchez, Samaná Bay, San Domingo, in the years 1886, 1887, and 1888, and by him presented to the Meteorological Office for publication.

For the first two years—1886, 1887—the record comprises 2-hourly observations (from 6 a.m. to 10 p.m.) of the—

Barometer,
Dry-bulb thermometer,
Wet-bulb thermometer,
Earth temperature,
Upper cloud,—form, amount, direction whence moving, and velocity,
Lower cloud, do. do. do.
Wind, direction and force, together with the 2-hourly computed values of the—
Dew point,
Relative humidity, and
Vapour tension, and the daily—
Maximum temperature in the shade,
Maximum temperature in the sun,
Minimum temperature in the shade,
Minimum temperature on the grass,
Rainfall,
Amount of sunshine,
Number of miles of wind as recorded by an anemometer, and
Remarks on the weather.

For the year 1888 the observations were the same in character, but were taken only four times daily, namely at 7 a.m., 9 a.m., 2 p.m., and 9 p.m.

By accident the anemometer and the earth and terrestrial radiation thermometers were not obtained at first, and some months elapsed before the omission could be supplied.

With regard to the outfit of the station, Dr. Reid says:—

“ All instruments in use are standard, and are of the make of Messrs. Negretti and Zambra, London. The barometer (Fortin's principle, inch and centimetre, &c.) and thermometers carry with them certificates of correction from the Kew Observatory. The wet and dry-bulb hygrometer, maximum and minimum thermometers, are hung in a Stevenson's screen on an open lawn, four feet above the ground. The solar and terrestrial-radiation thermometers are also on the lawn. The former (vacuum solar radiation) is placed four feet above the ground. The earth thermometer (Symons' principle) is at a depth of two feet. The first four months (of 1886) it was at a depth of one foot. The pluviometer is a Symons' five-inch diameter. The anemometer a Robinson's double-dialed, and the sun recorder a 'Jordan's patent sun recorder.' ”

In October 1888 Dr. Reid was taken ill, and he unfortunately died on December 4th in that year, at the age of 30. The observations were, however, continued at his request during his illness, and up to the end of 1888, by Francis Gilmour, Esq., one of the officials of the railway company, so that the series of three years is complete.

The Meteorological Council, recognizing the value of the observations both from their completeness, their frequency—nine times a day,—and the evident care displayed by the observers, has determined to publish them in considerable detail, though the series is but short. And in doing so they desire to express their high appreciation of the devotion to science displayed by Dr. Reid (who took all the readings himself, as long as he was able, and apparently bore the necessary charges out of his own pocket), and their deep regret at his early death.

Samaná Bay is a large inlet in the eastern end of the island of St. Domingo. It runs almost exactly from east to west, and is from 10 to 12 miles wide at its mouth, and of approximately the same width throughout. The observatory was situate on a low cliff on the northern shore, near the head of the bay, about 25 miles from the open sea. About a mile to the northward of the station runs a chain of mountains some 1,700 feet high, skirting the bay, and on the southern side of the bay is another range, the height of which, however, is not stated.

The land along the shores is in part swampy, and thickly wooded, but some of it is laid out in sugar plantations, &c. On the southern side of the bay and nearer its mouth the mountains retreat considerably further from the sea, and there is a large tract of swampy land.

The observations, as already stated, were taken every two hours, from 6 a.m. to 10 p.m. during 1886 and 1887; and at 7 a.m., 9 a.m., 2 p.m., and 9 p.m. during 1888. Local time was observed throughout.

Pressure.—The barometer readings have been corrected for instrumental error, and reduced to 32° Fahrenheit and the mean sea level. The height of the barometer cistern above the sea was 50 feet. Apparently no correction for gravity has been applied.

Temperature.—The readings of all the thermometers are given as read, a note being inserted by Mr. Gilmour, at Dr. Reid's request, to the effect "that all the thermometers have so little correction that none has been attempted." The shade instruments were exposed in a Stevenson's screen, placed on a lawn at 4 feet above the ground. The earth thermometer was for the first four months (that is from June till September 1886) at a depth of 1 foot, after that time at 2 feet below the surface. From an inspection of the figures it would appear that the change to 2 feet was made on September 11th.

The solar radiation thermometer, black bulb *in vacuo*, was placed at 4 feet above the ground.

In printing the observations the readings of the wet-bulb have been distinguished by *italic* type, while the extremes of temperature are shown in **Egyptian**.

Wind.—The wind directions are true. The anemometer was placed on a pyramidal structure some 32 feet high on a cliff by the side of the bay, and was well exposed except between N.E. and N.N.W., there being to the north of it, at some little distance,

some trees and houses, and one mile still further inland the chain of mountains previously mentioned. Dr. Reid says, however, "that, as the usual course of the wind " in about 19 days out of 20 is a light breeze in the West at 6 a.m., which continues till " about 8 a.m., then a short calm, then a light breeze from about South, which veers " round to East or E.S.E. by 10 a.m., and there continues till about 4 p.m., when it " remains calm till next morning,—the anemometer, though not correct, does not lose " very much." The force appears to have been estimated by Beaufort scale, where 0 represents a calm and 12 a hurricane.

Rainfall.—The rain-gauge employed was one of Symons' pattern, 5 inches in diameter. The height of the rim of the gauge above the ground is not stated, but it may safely be assumed at about 1 foot.

It is not quite certain what method has been followed in the entry of the daily rainfall. In some cases it would seem that the measured amounts have been entered to the preceding day, while at other times it appears that they have been entered to the day on which they were read. No mention is made of the hour at which the gauge was visited. In printing the observations the amounts have all been assumed to belong to the days on which they were entered. The maximum daily amount is printed in

Egyptian type.

Sunshine.—The duration of bright sunshine was measured by one of Jordan's photographic recorders.

Vapour Tension.—Dr. Reid had worked out the values for each hour of observation of the dew point, vapour tension, and relative humidity, using Glaisher's Tables for the purpose. Since, however, the individual readings of the wet-bulb are printed, it has not been thought necessary to reproduce the hygrometrical values in detail. And therefore only the value of the vapour tension for noon of each day is given.

Cloud.—The observations of cloud embraced for each observing hour the form, amount, direction whence moving, and the velocity of both the upper and lower strata. Three hours daily have been chosen for publication, namely, 6 a.m., 2 p.m., and 10 p.m. (for 1888, 9 a.m. and 9 p.m.). A blank signifies no observation. Whenever the fact of there being no cloud is recorded a zero has been inserted. In the form columns the capital letters C.N., C.S.N., &c. are abbreviations for separate forms, "Cum.," "Nim.," and "Cum., Str., Nim.," &c.

No information is given as to the scale adopted for the velocity of the upper cloud, and it is impossible now to say if the probable height of the various clouds was taken into account in estimating the rate of their movement.

Weather.—In the remarks the symbols adopted for international use by the Vienna Congress have been employed. They are as follow:—

Rain - - - - ●	Hoar-frost - - - - ⊥	Solar Corona - - - - ⊕
Snow - - - - ✱	Dew - - - - ∩	Solar Halo - - - - ○
Thunderstorm - - - - ⚡	Silver-thaw ("Rauh-frost," "Duft") ∇	Lunar Corona - - - - ⊙
Lightning without Thunder, or } <	Glazed Frost ("Glatteis") - ~	Lunar Halo - - - - ⊕
Sheet Lightning - - - - }	Snow-drift - - - - ⇄	Rainbow - - - - (
Hail - - - - ▲	Ice Crystals - - - - ←	Aurora - - - - ≡
Soft-Hail ("Graupel") - - - - △	Strong Wind - - - - ↻	Dust Haze ("Höhenrauch") - ∞
Mist, Fog - - - - ☼		

In respect of their intensity, the individual phenomena are distinguished by the figures 0 and 2, which are used as exponents of the symbols in such a way that 0 indicates very slight, 2 strong ;

e.g. ●⁰ slight Rain.

●² heavy Rain.

In giving the period of occurrence of the various phenomena "m" is never printed, hence—

a. indicates a.m.

p. „ p.m.

9a.—9p. „ 9 a.m. to 9 p.m., and further

n. is used to indicate night.

The whole of the observations have been carefully revised and examined, and probable values (distinguished by *italic* type) have been inserted whenever possible in those cases where the observations were missing.

In certain other cases the values as entered by Dr. Reid appeared on careful consideration to be erroneous, and whenever this was so, the figures have been rejected and probable values (also in *italic* type) have been inserted. Care must, however, be taken to distinguish between the italic type which indicates approximate values, and that used for the wet-bulb readings.

In obtaining the monthly sums and averages (which has been done in the Meteorological Office), care has been taken to omit the means in those cases where some of the daily values are missing.

On pages 62–64 will be found the Monthly Means and Summaries for the three years, together with yearly averages wherever possible.

ROBERT H. SCOTT,
Secretary to the Meteorological Council.

SANCHEZ (SAN DOMINGO).

T A B L E S.

METEOROLOGICAL OBSERVATIONS FOR 1886			-	-	-	pp. 2-25
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Do.	DO.	1888	-	-	-	pp. 50-61

OBSERVATIONS TAKEN AT SANCHEZ, SAN DOMINGO.

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above mean Sea Level, 50 feet.

JANUARY 1886.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Tension.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	66°	83°	147°	—	—	hours.	ins.	
1	30°059	30°081	30°090	30°053	30°005	30°023	30°037	30°053	30°055	66°5	83°7	147°0	—	—	7°0	*639	
2	067	079	065	049	30°020	032	017	020	050	63°5	81°5	149°0	—	—	6°0	*680	
3	050	054	047	029	29°993	000	025	040	043	63°5	82°0	140°0	—	—	6°5	*570	
4	035	040	055	033	0980	30°003	30°025	30°037	049	63°0	82°5	146°0	—	—	7°0	*628	
5	30°048	080	060	30°027	073	29°963	29°987	29°995	018	63°5	82°0	143°0	—	—	10°0	*818	
6	29°967	028	015	29°988	030	0932	049	29°995	007	66°0	85°0	149°0	—	—	10°0	*626	
7	30°005	037	049	30°018	0968	0958	29°992	30°000	010	71°0	83°0	134°0	—	—	10°5	*650	
8	025	047	040	040	30°000	29°987	30°009	045	035	65°0	81°0	139°0	—	—	7°5	*675	
9	045	070	087	058	032	30°025	043	052	055	71°0	83°0	134°0	—	—	10°0	*915	
10	055	063	069	042	30°010	005	009	029	055	71°0	84°8	152°0	—	—	8°5	*761	
11	028	062	058	058	29°994	005	043	069	060	70°0	87°0	147°0	—	—	8°0	*736	
12	043	073	120	075	30°050	050	043	075	075	71°0	76°0	—	—	—	0°0	*728	
13	081	128	143	127	040	040	052	067	070	68°0	82°0	133°0	—	—	3°5	*746	
14	075	090	130	115	080	083	083	083	065	71°0	76°0	—	—	—	0°5	*706	
15	078	128	133	137	30°067	30°070	30°065	084	077	68°0	76°0	135°0	—	—	7°5	*613	
16	30°037	062	083	037	29°992	29°965	29°988	014	037	62°0	78°0	129°0	—	—	9°5	*479	
17	29°980	045	063	035	29°999	30°002	30°020	057	077	62°0	80°0	134°0	—	—	10°5	*483	
18	30°103	141	153	142	30°109	109	133	159	198	61°0	80°0	138°0	—	—	10°0	*633	
19	148	179	190	159	132	117	117	145	168	62°0	80°0	140°0	—	—	5°0	*646	
20	131	162	185	137	090	090	100	099	125	67°0	80°0	137°0	—	—	1°5	*736	
21	074	101	123	078	030	020	045	067	083	67°0	82°0	140°0	—	—	7°0	*650	
22	070	098	082	062	025	013	045	046	083	66°0	84°0	140°0	—	—	9°5	*726	
23	072	097	117	30°097	30°055	30°045	30°065	30°073	30°088	65°0	80°0	111°0	—	—	8°0	*680	
24	30°032	30°034	30°037	29°997	29°940	29°947	29°942	29°957	29°990	65°0	80°0	131°0	—	—	2°0	*697	
25	29°963	29°957	29°957	0905	0882	0862	0885	0867	0890	71°0	82°0	112°0	—	—	3°0	*733	
26	086	085	087	0861	0831	0801	0852	0846	0860	70°0	84°0	137°0	—	—	6°0	*746	
27	085	0925	30°009	079	0804	0867	0846	0854	0870	66°0	84°6	135°0	—	—	10°0	*655	
28	0927	29°945	29°972	0915	0872	0887	0906	29°922	29°965	63°0	83°0	137°0	—	—	10°5	*661	
29	29°990	30°028	30°009	29°968	0942	0962	0962	30°017	30°008	64°0	84°0	137°0	—	—	10°5	*635	
30	30°029	045	023	30°025	0970	0968	0957	015	035	62°0	82°0	134°0	—	—	10°0	*716	
31	30°020	30°020	30°035	29°982	29°950	29°943	29°979	30°022	30°025	70°0	83°0	130°0	—	—	0°5	*812	
Mean	30°031	30°057	30°066	30°039	29°994	29°993	30°007	30°026	30°040	66°3	81°7	—	—	—	216°7	*683	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	68°0	64°7	70°0	67°0	74°7	71°0	80°0	71°7	82°0	72°0	77°7	69°0	74°0	67°0	72°5	66°5	70°0	66°5
2	64°5	61°5	67°0	64°5	75°5	71°0	78°0	72°0	79°5	73°0	76°0	70°5	73°7	68°0	73°7	68°0	73°0	68°5
3	67°0	64°0	68°7	66°0	75°0	68°7	78°0	69°0	79°7	69°5	79°0	74°5	75°0	68°0	73°5	67°5	72°0	66°5
4	65°0	61°0	67°0	65°0	75°0	70°0	79°0	71°0	81°0	70°0	79°0	74°0	75°0	68°5	78°5	67°5	77°0	68°0
5	64°7	61°0	67°5	65°0	74°0	72°0	78°0	75°2	79°0	70°0	78°0	69°0	74°0	67°0	71°7	66°0	70°0	66°0
6	67°5	63°5	71°0	67°0	76°0	70°0	80°5	71°5	83°0	73°0	82°0	72°0	77°0	69°0	76°0	69°0	75°0	69°5
7	71°5	68°0	74°0	70°0	77°0	72°0	80°0	72°0	81°5	71°0	80°0	72°0	76°0	70°0	73°0	68°0	73°0	68°5
8	65°0	62°0	68°0	65°0	73°0	68°0	81°0	73°0	79°0	74°0	78°0	74°0	77°0	74°0	76°0	72°0	75°0	72°5
9	72°0	69°0	73°0	71°0	78°0	73°5	80°0	78°0	83°0	75°5	81°0	74°0	78°0	73°0	76°0	71°0	74°0	71°5
10	72°0	69°0	73°0	70°5	78°0	74°0	84°7	76°5	83°2	74°8	81°8	75°0	77°0	74°0	77°0	72°0	75°0	71°0
11	71°0	68°0	76°0	68°6	78°0	72°0	81°8	74°8	85°0	75°2	80°5	78°8	78°8	73°0	77°4	73°0	75°0	72°5
12	72°0	68°0	72°5	69°8	74°0	71°8	75°0	72°0	74°0	71°0	73°6	71°5	72°6	69°5	72°5	70°9	71°0	69°5
13	70°0	67°0	70°8	69°0	72°8	71°5	74°0	72°0	80°0	74°5	79°5	73°6	76°0	74°0	75°0	71°0	74°0	70°5
14	71°5	69°0	73°0	71°0	73°5	71°2	75°0	71°5	73°5	71°0	73°0	69°5	72°0	69°0	72°0	69°8	71°0	69°0
15	70°2	68°5	71°0	67°8	73°6	69°0	74°8	69°0	74°2	68°4	73°0	67°2	71°5	64°5	68°2	63°0	68°0	63°6
16	63°0	60°0	66°5	62°8	72°0	68°0	73°4	64°4	75°0	65°0	73°0	64°6	69°2	64°0	67°2	63°2	67°0	63°0
17	62°4	60°0	65°0	62°5	72°2	66°5	75°0	65°2	76°4	66°2	76°4	67°0	73°0	65°0	68°0	62°6	67°8	62°0
18	62°2	59°0	66°0	62°0	72°4	68°0	76°0	70°0	76°5	68°2	76°0	67°0	72°2	65°0	70°0	64°2	69°8	64°0
19	63°5	60°2	66°8	64°8	73°2	69°5	76°0	70°4	75°0	70°5	77°7	69°8	72°6	66°5	71°8	66°8	71°0	66°2
20	69°0	66°0	69°4	67°0	71°2	69°0	75°0	72°2	77°5	73°4	77°0	72°0	73°7	70°2	71°0	68°5	71°0	68°2
21	68°0	65°9	69°6	68°0	72°8	70°6	76°0	70°5	79°8	72°0	79°2	73°5	74°2	70°6	74°2	70°6	72°2	69°0
22	66°5	64°0	70°0	68°0	76°7	72°8	79°8	73°8	82°0	74°0	77°0	70°0	75°0	69°8	73°8	69°0	72°5	68°5
23	66°0	63°2	67°2	65°0	74°8	70°6	76°8	71°5	75°0	71°5	76°8	71°6	74°0	69°6	71°8	68°0	70°5	65°0
24	66°8	63°8	68°8	67°0	74°8	71°0	78°2	72°5	79°0	73°0	77°9	72°4	75°0	70°4	74°0	70°6	74°0	70°2
25	71°8	69°8	75°0	73°0	78°8	73°0	81°2	74°5	75°5	72°2	75°8	73°6	73°8	72°0	72°0	70°6	72°0	71°0
26	71°5	70°0	73°4	72°0	77°6	73°2	77°8	73°5	84°0	74°0	81°5	74°0	75°2	71°0	73°0	69°0	73°0	69°0
27	67°0	65°5	74°0	71°5	78°0	73°7	81°5	72°7	82°2	73°2	73°6	70°6	78°5	67°5	72°8	64°8	71°0	67°8
28	66°2	65°6	72°2	69°8	78°5	72°5	82°0	73°0	82°8	71°2	81°8	70°8	73°5	69°2	72°5	69°0	70°8	68°8
29	64°0	63°5	70°3	67°5	79°0	73°2	81°2	72°0	81°8	67°2	80°8	71°6	74°0	67°2	70°8	65°8	70°8	65°4
30	67°2	66°0	73°0	69°8	80°0	74°0	80°0	73°7	79°8	72°8	79°8	73°7	75°0	72°0	72°7	70°5	71°0	68°0
31	71°7	70°7	72°0	71°0	77°0	74°8	79°8	75°8	81°3	76°0	78°5	75°8	76°8	72°5	75°2	72°8	73°5	72°8
Mean	67°7	65°4	70°4	67°7	75°4	71°2	78°4	72°4	79°4	71°7	78°1	71°8	74°6	69°2	73°0	68°5	72°0	68°4

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.—SANCHEZ, SAN DOMINGO.

JANUARY 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	E	2	C.N.	8	E	3	Cum.	7	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	3	C.N.	9	E	2	Cum.	—	—	—
3	—	—	—	—	Cir.-s.	3	S	0.3	—	—	—	—	C.N.	8	NE	4	Cum.	4	NE	2	Cum.	—	—	—
4	—	—	—	—	Cir.-c.	3	W	0.3	—	—	—	—	Cum.-s.	6	E	2	Cum.	4	E	2	Cum.	—	—	—
5	—	—	—	—	Cir.	2	W	0.3	—	—	—	—	Cum.-s.	6	E	2	Cum.	7	E	2	C.N.	—	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	SE	3	Cum.	7	SE	2	Cum.	—	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	SE	4	Cum.	6	ESE	3	Cum.	7	ESE	2
8	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	2	Cum.	8	SE	4	Nim.	10	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	NE	3	Cum.	6	E	3	Cum.	—	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	2	Cum.	6	E	2	Cum.	5	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	9	E	2	Cum.	8	NE	3	Nim.	10	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	0	Nim.	10	NE	4	Nim.	10	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	W	3	Cum.	7	NW	2	Cum.	6	NW	2
14	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	0	Nim.	10	—	0	Nim.	10	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	N	4	C.N.	9	NW	4	Cum.	5	NW	6
16	Cir.	3	N	0.3	Cir.-c.	4	N	0.3	—	—	—	—	C.N.	6	E	3	Cum.	4	E	2	Nim.	10	—	—
17	Cir.-s.	2	N	0.5	—	—	—	—	—	—	—	—	—	—	—	0	Cum.	4	NW	3	Cum.-s.	2	N	1
18	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	3	C.N.	8	ENE	2	Cum.-s.	2	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	—	0	C.N.	9	ENE	2	Cum.	9	ENE	2
20	—	—	—	—	Cir.	2	S	0.3	—	—	—	—	Nim.	10	SW	4	Cum.	7	SW	4	Cum.	5	S	3
21	—	—	—	—	Cir.	2	W	0.5	Cir.	4	SW	0.5	Nim.	10	NE	3	Cum.	6	NE	3	Cum.-s.	3	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	NNE	5	Cum.	8	E	3	Cum.	3	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	3	NE	4	C.N.	7	NE	3	Cum.-s.	1	—	—
24	—	—	—	—	Cir.	2	N	0.3	—	—	—	—	Nim.	10	E	4	Cum.	4	E	3	C.N.	6	SE	4
25	Cir.-s.	1	W	0.3	—	—	—	—	—	—	—	—	Cum.	2	—	0	Nim.	10	SE	4	Nim.	10	SE	6
26	—	—	—	—	Cir.-s.	—	W	4	—	—	—	—	Nim.	10	S	3	Cum.	5	SE	3	Cum.	7	SE	3
27	—	—	—	—	Cir.-c.	4	SW	0.3	—	—	—	—	Cum.-s.	6	S	2	—	—	—	0	Cum.	2	—	—
28	Cir.-s.	3	S	1	—	—	—	—	—	—	—	—	Cum.	4	ESE	2	Cum.	7	SE	2	C.N.	6	SE	2
29	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	—	0	Cum.	5	SW	1	Cum.	3	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	10	S	1	C.N.	10	SE	3	Nim.	10	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	4	C.N.	9	SE	5	C.N.	10	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	7.0	—	2.4	—	6.8	—	2.6	—	—	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	Calm 0	EbyS 5	E 2	Calm 0	—	—	☁ (mist) over swamp 6a. ☁ 10a. ● showers in S. p.
2	Calm 0	WSW 3	SW 4	E 1	Calm 0	—	—	☁ (mist) on swamp 6a. ☁ 10a. Overcast p., with ● in S.
3	Calm 0	Calm 0	EbyS 4	Calm 0	Calm 0	—	—	Threatening appearance 6a. ☁ (mist) over swamp. Fine from 10a. ☁ p.
4	Calm 0	SW 3	EbyS 4	Calm 0	Calm 0	—	—	☁ n. ☁ (mist) over swamp 6a. Fine from 8a.
5	Calm 0	W 2	E 4	Calm 0	Calm 0	—	—	☁ (mist) over swamp 6a. ☁ 10a. Fine day. ● in S. 4p.
6	W 1	Calm 0	ESE 2	Calm 0	Calm 0	—	—	☁ (mist) on hills and swamp 6a. Fine from 8a. ☁ 10a. and noon.
7	Calm 0	E 2	EbyS 3	Calm 0	Calm 0	—	20	☁ (mist) 6a. Fine from 8a. ☁ 10a.—2p. Very still 6p., with ☁.
8	Calm 0	Calm 0	EbyS 4	Calm 0	Calm 0	—	—	☁ (mist), ☁ 6a. Fine 8a.—2p. ☁ noon. Squall of ● from SE. 4p.
9	Calm 0	EbyS 2	ESE 4	Calm 0	Calm 0	—	35	☁ (mist) on swamp 6a. Fine till 10a., then ● shower. Fine p. ☁
10	Calm 0	WbyN 2	E 2	NE 2	Calm 0	—	—	☁ 6a.—8a. Fine 10a.—4p., with ☁. Overcast 6p., ● shower in S.
11	Calm 0	NE 2	NE 1	Calm 0	Calm 0	—	—	☁ (mist) on N. hills a., fine till 2p. Threatening in E. 4p. ☁ 5p. ● 6p.—10p.
12	Calm 0	Calm 0	WbyN 4	NE 4	E 3	—	1.32	☁ (mist) on hills 6a. ● all day (from W. at 8a.). Squally p.
13	Calm 0	W 2	WbyN 2	Calm 0	Calm 0	—	1.80	☁ 6a. ☁ (mist) on hills 6a.—2p. Fine and clear from 4p.
14	Calm 0	EbyN 2	Calm 0	Calm 0	Calm 0	—	1.51	☁ (mist), ● showers a. Partial ☁ 9a. Steady ● from 10a.
15	NE 2	WbyN 4	NNW 1	Calm 0	Calm 0	—	2.00	Double ☁ 8a. Very squally 10a. ● 0 p. Red sunset. ☁ 8p.
16	NNE 2	NNW 1	WbyN 2	NE 1	Calm 0	—	—	☁ n. Red sunrise. ☁ (mist) over swamp 6a. Day fine.
17	Calm 0	WbyN 3	NNE 2	Calm 0	Calm 0	—	—	☁ n. ☁ (mist) over swamp 6a. Day fine, with ☁. Red sunset.
18	Calm 0	WbyS 2	NE 3	NE 1	EbyN 1	—	—	Red sunrise. ● showers in E. a. ☁ 10a. Fine p., with ☁. ☁ 8p.
19	Calm 0	WSW 1	WbyN 1	WbyS 2	Calm 0	—	—	☁ n. ☁ (mist) over swamp 6a. ☁ 8a. ● showers 2p. ☁
20	WbyN 1	W 3	WSW 2	Calm 0	Calm 0	—	29	☁ (mist) on hills all day. ● 0 a. ● 2 in S. 10a. ● 2 from E. 4p.
21	Calm 0	WNW 1	ENE 3	Calm 0	Calm 0	—	—	☁ a. ☁ (mist) on N. hills 10a. and noon. ☁ p.
22	Calm 0	WSW 2	E 3	WbyS 3	Calm 0	—	—	☁ (mist) on hills 6a. Day fine, with ☁. Localised ● showers in S. noon.
23	WbyN 1	SWW 2	W 1	Calm 0	Calm 0	—	—	☁ over swamp 6a. ☁ 2 noon, with ● from E. Fine 4p. Bright sunset.
24	Calm 0	ENE 2	E 5	E 4	E 2	—	88	☁ (mist) on hills a. Fine p., with ● 2 in S. Red reflected sunset.
25	Calm 0	NE 3	Calm 0	Calm 0	Calm 0	—	04	☁ (mist) on swamp 6a. ☁ a. Isolated ● showers in S. noon. Steady ● p.
26	Calm 0	WbyS 2	WbyN 2	WbyN 1	Calm 0	—	2.06	☁ (mist) till 8a. ● shower from N., with partial ☁ 4p.
27	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	—	—	☁ over swamp 6a. Fine all day, with ☁. Red sunset.
28	Calm 0	WbyS 1	ESE 1	NNE 2	Calm 0	—	—	Red sunrise. ☁ over swamp 6a.—8a. Day fine, with ☁.
29	Calm 0	WbyS 2	ESE 2	NE 1	Calm 0	—	—	☁ over swamp 6a.—8a. Day fine with ☁. Very red sunset.
30	Calm 0	ESE 1	EbyS 4	ESE 5	Calm 0	—	—	Very red sunrise. ☁ over swamp 6a. Fine a. ☁. ● 2p. ● 2 from E. 4p.
31	Calm 0	Calm 0	SW 1	SW 1	Calm 0	—	35	☁ (mist) on hills a. ● (from E.) till 4p. Very dark 8p.
Mean	0.2	1.6	2.5	1.0	0.2	—	10.80	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

FEBRUARY 1886.

Day.	BAROMETER.									TEMPERATURE.					SUN-SHINE.	Vapour
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.									Shade.		Radiation.		Earth.		Tension.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.			Noon.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	70°0	84°0	137°0	0	0	hours.	in.
1	30°030	30°063	30°033	30°015	29°993	29°977	30°009	30°037	30°055	68°0	86°0	146°0	—	—	7°5	*829
2	*068	*083	*083	*055	30°010	30°015	*013	*031	*033	68°0	86°0	146°0	—	—	9°5	*711
3	*068	*063	*070	*050	*010	30°000	*016	*052	*055	68°0	82°0	147°0	—	—	9°0	*761
4	*048	*087	*090	*035	*010	29°992	*003	*029	*079	67°0	82°0	136°0	—	—	10°0	*708
5	30°023	*122	*128	*090	*040	30°042	*068	*109	*120	68°0	88°0	147°0	—	—	10°0	*793
6	29°989	*030	*037	30°115	30°067	30°050	30°073	30°083	30°083	68°0	76°0	112°0	—	—	0°1	*774
7	30°025	30°023	30°032	29°997	29°953	29°952	29°957	29°962	29°953	68°0	84°0	144°0	—	—	4°5	*754
8	29°967	29°984	29°980	*032	*001	*008	*020	*043	*049	64°0	82°0	110°0	—	—	0°5	*749
9	*914	*008	*035	*868	*835	*785	*879	*912	*920	66°0	84°0	136°0	—	—	5°0	*738
10	*892	29°042	29°950	29°935	*892	*892	*903	29°939	29°952	69°0	84°0	145°0	—	—	7°0	*664
11	*985	30°010	30°037	30°000	*957	*922	*577	30°006	30°009	69°0	86°0	137°0	—	—	11°0	*718
12	*975	*000	*023	29°992	*930	*930	*945	29°963	29°969	67°0	87°0	133°0	—	—	10°0	*655
13	29°977	*017	*037	29°992	29°960	*957	29°965	29°995	30°015	70°0	82°0	140°0	—	—	4°0	*744
14	30°030	*037	*067	30°042	30°012	29°992	30°029	30°065	*087	71°0	81°0	142°0	—	—	8°0	*682
15	*123	*150	*172	*135	*122	30°095	*120	*152	*147	69°0	82°0	136°0	—	—	7°0	*687
16	*148	*173	*199	*179	*105	*092	*090	*135	*145	67°0	81°0	146°0	—	—	7°0	*738
17	*125	*163	*173	*132	*060	*048	*070	*097	*090	66°0	81°0	130°0	—	—	5°0	*701
18	*130	*158	*172	*130	*092	*075	*103	*132	*115	62°0	81°0	136°0	—	—	9°0	*584
19	*123	*140	*157	*128	*062	*040	*063	*105	*107	66°0	83°0	138°0	—	—	6°0	*726
20	*083	*090	*113	*078	*032	*012	*045	*052	*055	69°0	83°0	136°0	—	—	10°5	*673
21	*023	*123	*133	*092	*055	*065	*063	*109	*122	67°0	85°0	140°0	—	—	9°5	*682
22	*125	*150	*153	*125	*090	*092	*113	*150	*157	68°0	83°0	150°0	—	—	8°5	*675
23	*134	*153	*162	*127	*080	30°080	*069	*112	*115	65°0	82°0	138°0	—	—	6°0	*731
24	*083	*100	*097	*065	30°018	29°995	*020	*052	*055	68°0	83°0	146°0	—	—	6°5	*668
25	*053	*055	*089	*037	29°995	30°000	30°007	*062	*042	69°0	81°0	145°0	—	—	3°5	*782
26	*032	*045	*050	30°000	*947	29°940	29°960	*007	*007	69°0	84°0	141°0	—	—	10°0	*699
27	*017	*039	*045	29°982	*932	*934	*932	*000	*017	72°0	90°0	150°0	—	—	10°5	*661
28	30°010	30°022	30°025	29°994	29°922	29°934	29°955	30°012	30°012	70°0	89°0	146°0	—	—	10°5	*733
Mean	30°043	30°069	30°080	30°047	30°003	29°993	30°014	30°047	30°053	67°9	83°5	138°9	—	—	205°6	*715

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.	
1	72°0	74°8	74°5	72°3	82°4	77°5	82°0	77°0	84°0	75°4	81°8	75°8	77°5	73°5	73°0	71°2	71°4	70°5
2	68°5	67°5	74°5	72°7	82°5	75°0	82°5	74°5	86°0	77°0	84°7	76°0	77°5	72°7	76°0	71°7	73°0	69°0
3	70°7	69°7	73°0	70°0	79°0	73°0	79°5	74°5	80°0	74°0	79°7	74°7	76°2	72°0	76°0	71°2	74°0	72°0
4	70°0	68°5	76°5	74°0	80°5	73°5	81°5	74°0	82°0	74°2	80°0	74°5	76°0	72°5	76°0	72°0	76°5	73°4
5	69°8	68°8	78°4	75°0	87°0	79°0	83°5	76°8	83°8	76°0	80°8	73°5	77°0	72°0	74°5	73°5	75°0	72°0
6	70°0	69°5	73°0	72°0	73°0	72°5	73°0	72°2	70°5	70°0	74°0	71°0	72°0	70°0	72°0	69°0	72°0	69°0
7	71°0	70°0	72°5	70°8	80°8	76°0	81°8	75°2	79°0	73°0	74°0	70°8	72°0	69°5	71°7	70°5	70°0	69°0
8	65°0	64°5	68°4	66°0	75°0	70°5	81°6	75°0	77°5	72°0	74°0	70°0	72°0	69°0	68°5	67°0	68°5	67°5
9	67°0	66°5	71°0	68°8	76°0	71°2	81°0	74°6	74°0	71°0	74°0	76°0	72°0	72°0	74°0	71°0	68°8	67°0
10	70°2	68°8	77°5	73°8	80°2	74°0	83°0	73°5	81°8	74°0	82°0	75°0	76°0	72°0	75°0	72°0	74°0	71°5
11	69°2	68°6	75°0	73°0	82°0	77°0	83°5	75°0	84°0	75°8	81°5	74°0	77°0	71°8	75°5	72°0	76°0	71°0
12	69°0	68°2	73°0	71°8	81°5	74°0	81°0	72°5	85°0	75°5	81°0	76°0	77°0	72°0	74°5	71°0	74°0	71°0
13	73°0	71°0	74°0	71°5	79°0	74°5	81°3	74°8	77°0	74°0	73°0	72°0	74°0	72°0	74°0	72°0	72°0	70°0
14	72°0	70°0	75°0	72°0	79°0	73°0	80°5	73°0	81°0	74°5	80°0	72°2	74°5	72°0	73°0	68°0	73°5	68°0
15	70°0	68°5	72°0	71°0	77°0	72°5	80°2	73°0	80°0	72°0	79°5	71°5	76°0	70°0	74°0	69°0	71°0	67°0
16	71°0	68°0	72°0	69°0	71°0	68°0	72°0	71°0	78°5	71°0	78°5	70°6	74°0	68°0	72°0	67°0	71°0	67°5
17	69°5	68°5	70°0	69°0	70°0	69°0	76°8	72°0	79°5	72°0	79°5	72°0	74°0	68°0	72°5	68°0	71°0	68°0
18	67°5	66°5	71°0	69°5	79°0	75°0	79°8	70°0	80°8	73°8	79°6	72°0	75°0	70°0	74°0	69°0	73°0	69°5
19	71°5	69°5	72°8	70°0	80°0	74°0	79°0	73°5	80°0	71°0	80°0	72°0	75°0	69°0	73°0	69°0	73°0	69°0
20	71°5	70°0	75°0	72°5	79°0	74°0	79°8	72°5	81°0	70°0	79°5	72°0	76°0	69°5	74°0	68°8	72°0	69°0
21	71°0	69°5	73°0	70°0	81°0	75°0	80°5	73°0	81°0	74°0	80°0	73°0	76°0	69°0	74°0	70°0	72°0	70°0
22	70°0	68°0	76°0	72°0	78°5	73°0	81°0	73°0	81°0	73°0	79°0	72°0	75°0	72°0	74°0	69°0	72°8	68°4
23	67°5	66°0	74°0	71°0	75°0	71°0	77°5	73°0	79°0	73°0	76°5	73°0	75°0	70°5	75°0	71°0	74°0	71°0
24	73°0	71°0	74°8	72°0	80°0	74°0	80°0	72°5	79°0	72°0	78°0	71°5	76°0	71°0	73°0	70°0	73°0	71°0
25	71°0	70°0	75°0	72°0	78°0	72°5	77°0	74°0	79°8	73°0	78°0	72°0	75°0	71°0	73°0	71°0	72°0	70°0
26	73°0	71°0	77°0	73°5	79°0	71°8	82°0	74°0	83°5	74°8	82°0	74°0	77°0	72°0	78°0	73°5	76°0	72°0
27	73°0	70°5	80°0	75°0	80°5	74°5	84°8	74°0	84°0	74°0	83°0	74°0	79°0	74°0	77°8	73°0	76°0	73°5
28	72°0	70°0	79°2	74°8	82°0	73°0	84°5	73°7	86°0	75°0	84°0	74°0	79°0	73°0	77°0	72°0	76°0	71°0
Mean	70°3	68°9	74°2	71°6	78°9	73°6	80°4	73°7	81°0	73°5	79°2	73°0	75°6	71°1	74°1	70°4	73°0	70°0

Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.—SANCHEZ, SAN DOMINGO.

FEBRUARY 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	Cir.-s.	2	N	0.5	—	—	—	—	Nim.	10	W	3	Cum.	5	SW	2	—	0	—	—
2	—	—	—	—	Cir.-c.	5	SE	0.5	—	—	—	—	Nim.	10	—	—	—	0	—	—	Cum.	9	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	S	1	Cum.	3	S	2	Cum.	3	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	EbyS	2	Cum.	8	ESE	2	Cum.	9	ESE	3
5	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	N	2	Cum.	8	NNW	2	Cum.	8	NE	1
6	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	NE	4	Nim.	10	NE	4	C.N.	9	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	4	Cum.	7	E	3	C.N.	9	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	10	SE	3	Nim.	10	SE	2	Nim.	10	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	SE	4	Cum.	8	SE	4	Cum.	3	SE	3
10	Cir.	1	NW	0.5	—	—	—	—	—	—	—	—	C.N.	6	SbyE	3	Cum.	9	SE	2	Cum.	4	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	NE	2	Cum.	6	ENE	2	Cum.	7	E	2
12	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	ENE	3	Cum.	8	ENE	2	Cum.	7	E	1
13	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Nim.	10	ESE	2	C.N.	9	—	—
14	Cir.-s.	2	NE	1	Cir.	2	N	1	—	—	—	—	Cum.	8	SE	6	Cum.	5	ESE	5	Cum.	6	E	2
15	—	—	—	—	Cir.-s.	1	W	0.3	—	—	—	—	Cum.-s.	5	SE	5	Cum.	6	ESE	4	Cum.-s.	6	ESE	3
16	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	9	E	3	Cum.	4	E	2	Cum.	3	—	—
17	—	—	—	—	Cir.	2	NE	0.3	—	—	—	—	Nim.	10	E	2	C.N.	8	E	3	Cum.	1	—	—
18	—	—	—	—	Cir.-s.	2	NE	1	—	—	—	—	Nim.	10	SE	4	Cum.	4	ESE	2	Cum.	6	E	2
19	—	—	—	—	Cir.-s.	3	N	0.3	—	—	—	—	Nim.	10	E	5	Cum.	5	E	4	Cum.	1	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	10	ESE	4	Cum.-s.	6	ESE	3	Cum.	4	—	—
21	Cir.	2	S	0.5	Cir.	2	SE	0.5	—	—	—	—	C.N.	7	E	6	Cum.	5	E	5	Cum.	8	—	—
22	Cir.-s.	1	SE	0.5	Cir.-s.	2	S	0.5	—	—	—	—	Cum.	6	E	2	Cum.	5	ENE	2	Cum.	3	—	—
23	Cir.-s.	2	N	0.3	—	—	—	—	—	—	—	—	C.N.	7	ESE	3	Cum.-s.	8	E	3	C.N.	10	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	9	NE	3	C.N.	9	E	3	Cum.	8	—	—
25	—	—	—	—	Cir.-s.	2	N	0.3	—	—	—	—	C.N.	10	E	3	C.N.	10	E	2	—	0	—	—
26	Cir.-s.	1	E	0.3	Cir.-s.	1	NE	0.3	—	—	—	—	Cum.	2	—	—	Cum.	6	SE	2	Cum.	1	—	—
27	Cir.-s.	2	NE	0.5	—	—	—	—	—	—	—	—	Cum.	6	SW	1	Cum.	9	SE	1	Cum.	8	SE	2
28	—	—	—	—	Cir.-c.	5	E	0.3	—	—	—	—	C.S.N.	10	—	—	—	0	—	—	Cum.	5	SE	2
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	7.8	—	—	—	6.5	—	—	—	5.6	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	SE 1	SE 1	Calm 0	Calm 0	—	*17	☼ (mist) ☼ from W. a. Muggy at noon. ∞ 2p. Fine.
2	Calm 0	Calm 0	ESE 2	NEbyN 2	Calm 0	—	—	☼ 6a.—8a. Very fine day, with some ∞.
3	Calm 0	SbyE 2	EbyS 4	Calm 0	S 2	—	—	☼ n. ☼ (mist) over swamp 6a. Fine day, with ∞.
4	Calm 0	EbyN 2	ESE 4	ENE 2	ESE 1	—	—	☼ on swamp and hills 6a.—8a., then fine. Fine and fresh p.
5	Calm 0	ESE 1	ESE 3	NbyE 1	Calm 0	—	—	Red sunrise. ☼ on swamp 6a. Threatening in E. a. ☼ 8p.
6	Calm 0	N 2	NE 4	EbyN 4	W 2	—	*98	☼ (mist) on hills and swamp 6a. ☼ all day. Wind very gusty p.
7	SW 1	ESE 2	ESE 4	Calm 0	Calm 0	—	*83	☼ (mist) on hills ☼ a. Very squally 2p., with ☼ in S.
8	W 1	W 1	SbyE 1	Calm 0	Calm 0	—	—	Very dull, with ☼ (mist) on hills all day. Very close 6p. ☼ 10p.
9	Calm 0	E 3	SSE 3	EbyS 1	Calm 0	—	*13	☼ (mist) on hills 6a. Clouds low. ∞ noon. Overcast till 4p. Pretty sunset.
10	Calm 0	ENE 3	ESE 1	ENE 1	Calm 0	—	—	☼ n. Very dark in E. 6a. ☼ (mist) on hills 8a. Fine from 10a. ☼ showers in S. p.
11	Calm 0	Calm 0	ESE 1	ENE 2	Calm 0	—	—	☼ n. Red sunrise. ☼ over swamp 6a. Fine all day, with ∞. Red sunset.
12	Calm 0	NEbyE 1	ENE 1	Calm 0	Calm 0	—	—	☼ over swamp, ☼ (mist) on hills 6a.—8a. Day fine, with ∞. Red sunset.
13	Calm 0	EbyS 3	SE 5	Calm 0	Calm 0	—	—	☼ (mist) on hills, ☼ 6a. Fine 8a.—noon. Dark, with ☼ p.
14	E 3	EbyN 4	EbyS 5	E 3	Calm 0	—	*42	☼ from E. 6a. Very gusty 10a. Fine and fresh at noon, sea high.
15	NEbyN 1	E 2	E 6	E 1	Calm 0	—	*22	☼ (mist) on hills, ☼ from NE. 6a. Fine p. ∞ from 6p. ☼ 2
16	W 1	E 1	E 5	Calm 0	Calm 0	—	—	Very dull, ☼ (mist) on hills 6a. ☼ 2 showers in S. a. Fine from 2p. ∞
17	Calm 0	E 1	E 3	E 1	Calm 0	—	*55	☼ (mist) 6a. ☼ from E. a. ☼ showers noon. Fine p. ∞ 10p.
18	W 1	W 1	E 2	E 1	Calm 0	—	—	☼ (mist) 6p. ☼ showers a. Partial ☼ 8a. Fine p., with ☼ in S. ☼ 5.30p.
19	W 1	SEbyE 3	E 4	ENE 1	ENE 1	—	*03	☼ from E. a. ☼ (mist) on hills 10a. Fine p., with ☼ in S.
20	Calm 0	E 1	ENE 3	NEbyE 1	Calm 0	—	*68	☼ n. ☼ (mist) on hills and swamp. Double ☼ 7a. ∞ 10a. Fine p.
21	W 1	ESE 1	E 4	ENE 1	Calm 0	—	—	☼ (mist) on N. hills and swamp till 8a. Day fine, with ☼ showers in S.
22	NW 1	EbyN 3	E 5	ESE 1	Calm 0	—	*01	☼ n. Day fine, with local ☼ showers in S. ∞ 2p.
23	W 1	ESE 1	EbyS 2	NbyE 1	Calm 0	—	—	☼ over swamp 6a. Day overcast, with ☼ showers in S. and SE. Red sunset.
24	W 1	EbyN 1	ENE 2	EbyN 3	Calm 0	—	*02	☼ (mist) on hills and swamp, with ☼ a. ☼ p. Partial ☼ 4p.
25	NW 1	NW 1	E 5	ENE 1	Calm 0	—	*09	☼ (mist) on hills, ☼ showers a. and p. Squally 4p. ☼ 8p. Dark.
26	W 1	EbyN 2	ESE 2	ENE 1	Calm 0	—	*60	☼ n. Day fine throughout, with ∞.
27	W 1	E 1	SE 2	ENE 1	Calm 0	—	—	☼ n. ☼ (mist) on hills and swamp 6a. Day fine. Sultry noon. ∞ 2p.
28	Calm 0	EbyS 1	ESE 1	Calm 0	Calm 0	—	—	☼ n. ☼ (mist) on hills, clouds low, 6a. Very fine p. Red sunset.
Mean	0.6	1.6	3.0	1.1	0.2	—	4.73	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

MARCH 1886.

Day.	BAROMETER.									TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.									Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.			Noon.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	°	°	°	°	°	hours.	in.
1	30.000	30.022	30.012	29.952	29.926	29.910	29.989	29.970	29.993	70.0	88.0	146.0	—	—	10.0	.701
2	29.999	.025	.049	30.000	30.000	29.960	30.015	30.017	30.040	71.0	80.0	135.0	—	—	6.5	.641
3	30.050	.060	.072	.038	29.995	30.000	.012	.083	.095	66.0	78.0	137.0	—	—	11.0	.531
4	.075	.111	.107	.095	30.030	30.038	30.057	.077	.089	62.0	82.0	143.0	—	—	8.0	.613
5	.088	.077	.088	.042	29.997	29.987	29.998	.039	.042	69.0	86.0	137.0	—	—	10.5	.657
6	.021	.065	30.068	30.034	.979	.953	.992	30.039	30.047	68.5	89.0	144.0	—	—	10.5	.754
7	.023	.045	29.958	29.924	.883	.882	.902	29.960	29.980	70.0	93.0	140.0	—	—	10.5	.668
8	.023	.069	30.052	30.032	.999	.992	.995	30.062	30.049	69.0	91.0	147.0	—	—	8.5	.733
9	.073	.072	.058	30.042	.984	.962	.958	29.992	.007	69.0	89.0	141.0	—	—	10.0	.675
10	.022	.037	.052	29.999	.928	.939	29.960	29.995	.020	73.0	93.0	145.0	70.0	—	9.5	.655
11	.012	.037	.037	29.990	29.997	29.970	30.022	30.055	.065	73.0	94.0	147.0	71.0	—	6.0	.723
12	.081	.103	.142	30.103	30.060	30.067	.075	.108	.111	69.0	82.0	147.0	67.0	—	8.0	.444
13	.054	.091	.102	.048	29.995	29.998	.009	.037	.065	60.0	83.0	136.0	56.0	—	10.5	.590
14	.110	.132	.157	.036	30.002	29.992	.017	.089	.052	63.0	83.0	142.0	58.0	—	11.5	.576
15	.120	.159	.158	.128	.092	30.095	.100	.142	.139	70.0	84.0	142.0	66.5	—	5.0	.793
16	.135	.139	.128	30.098	30.045	30.028	30.047	30.050	30.070	69.0	84.0	142.0	64.5	—	11.0	.673
17	30.013	30.023	30.020	29.987	29.934	29.922	29.930	29.962	29.975	64.0	90.0	147.0	60.4	—	11.5	.582
18	29.925	29.952	29.958	29.920	29.902	.916	29.912	29.967	29.990	69.0	87.0	142.0	66.4	—	8.5	.611
19	29.978	30.023	30.045	30.020	30.007	29.993	30.010	30.045	30.055	68.0	75.0	110.0	66.0	—	0.0	.652
20	30.087	.125	.129	.118	.063	30.040	.059	.095	.087	64.0	82.0	147.0	61.0	—	7.5	.586
21	.100	.132	.121	.092	.082	30.070	.093	.109	.122	69.0	84.0	140.0	66.0	—	6.5	.731
22	.100	.126	.092	.057	30.012	29.992	.018	.043	.053	72.0	88.0	141.0	67.5	—	6.0	.769
23	.067	.059	.070	.029	29.979	29.984	.003	.077	.059	73.0	93.0	147.0	69.0	—	9.5	.668
24	.100	.137	.147	.155	30.147	30.167	.190	.220	.220	70.0	77.0	86.0	68.0	—	0.1	.666
25	.215	.260	.277	.263	.225	.231	.220	.283	.283	67.0	77.0	87.0	63.0	—	0.0	.533
26	.201	.225	.220	.175	.126	.115	.120	.130	.143	66.0	79.0	141.0	65.0	—	3.5	.588
27	.095	.129	.129	.123	.060	.053	.063	.055	.037	70.5	84.0	145.0	66.0	—	7.0	.704
28	.060	.090	.077	.070	.038	.022	.043	.092	.122	69.0	83.0	148.5	66.0	—	10.0	.782
29	.125	.123	.125	.108	.048	.055	.063	.109	.125	72.5	85.0	142.0	70.0	—	9.5	.716
30	.110	.127	.135	.092	.086	.047	.080	.112	.125	73.0	85.0	138.0	68.0	—	12.0	.749
31	30.100	30.120	30.100	30.095	30.056	30.042	30.077	30.105	30.102	71.0	84.0	136.0	66.5	—	11.5	.675
Mean	30.070	30.094	30.093	30.060	30.022	30.014	30.031	30.068	30.076	68.7	84.9	137.7	—	—	250.1	.659

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.	
1	72.0	69.0	75.0	73.0	86.0	73.0	86.0	76.0	88.0	75.0	85.0	73.5	78.0	72.5	78.0	73.0	77.0	73.0
2	74.0	71.5	75.0	73.5	75.5	71.5	78.0	71.0	76.0	70.0	75.5	68.6	74.8	67.8	73.0	67.0	72.0	67.0
3	69.8	67.0	72.5	69.0	77.0	68.0	78.0	67.8	78.0	66.0	77.0	67.0	72.0	66.0	70.0	64.5	68.5	64.0
4	64.0	63.0	71.0	67.0	78.0	69.5	81.0	71.4	82.0	70.5	78.0	69.5	75.0	68.0	73.0	68.0	72.0	68.0
5	69.8	67.5	75.5	70.5	79.0	72.0	83.4	73.0	83.0	73.8	81.0	74.5	77.0	72.0	77.5	71.0	76.0	71.0
6	68.8	67.0	76.8	74.5	83.5	75.0	86.0	76.8	87.0	75.0	84.0	74.0	78.8	73.0	78.0	73.0	77.0	73.0
7	71.0	69.0	76.8	73.8	84.5	75.0	85.5	74.5	90.5	72.0	84.0	72.5	79.0	71.0	78.0	72.0	78.0	73.0
8	72.0	69.5	78.0	74.0	83.0	76.0	86.5	76.5	86.0	77.0	81.0	74.5	79.0	74.0	77.8	73.0	75.0	73.0
9	72.5	69.5	77.0	73.0	81.6	74.5	86.5	75.0	84.8	76.5	81.0	75.0	79.8	74.0	79.0	73.5	76.0	72.0
10	77.0	73.0	80.0	75.0	83.0	76.0	88.0	75.0	88.0	75.0	86.0	75.0	83.0	74.0	80.0	73.0	78.0	73.0
11	77.0	73.0	81.0	75.0	87.0	77.0	90.0	77.5	80.0	74.0	75.8	70.0	74.0	71.0	73.4	69.8	73.0	70.0
12	70.8	69.0	73.0	68.4	73.0	68.8	77.0	64.5	75.5	64.5	76.0	65.0	74.0	65.3	69.0	62.0	69.0	63.0
13	63.0	61.0	71.5	65.0	78.0	69.0	80.5	70.5	80.4	70.3	78.5	69.8	74.8	68.0	74.0	68.0	74.0	69.0
14	67.0	65.0	77.0	69.0	81.0	73.0	83.0	71.0	82.8	73.8	81.0	72.0	77.0	69.0	76.0	71.0	75.0	70.0
15	72.8	71.0	76.0	74.0	80.0	74.0	79.0	75.0	81.0	75.0	80.5	74.0	78.6	72.0	76.0	71.0	75.0	71.0
16	72.0	69.5	78.0	69.5	80.0	78.0	79.8	73.5	81.0	73.0	79.0	71.0	76.0	70.0	72.0	67.0	72.0	68.0
17	68.0	66.0	72.0	69.0	82.8	78.0	84.8	71.8	84.0	73.0	80.5	70.5	77.4	70.0	75.0	69.0	74.0	70.0
18	71.8	69.5	75.0	72.0	82.0	78.0	83.0	72.0	83.0	74.5	78.0	71.0	74.0	68.8	74.0	68.0	73.0	68.0
19	69.0	67.0	71.0	69.0	71.0	67.5	71.0	68.5	74.8	70.8	71.0	66.0	71.6	67.7	70.0	66.0	70.0	66.0
20	66.0	64.5	71.0	68.0	77.0	67.0	79.5	70.0	78.0	67.5	78.0	67.5	75.0	68.0	75.0	69.0	74.0	68.5
21	72.0	69.0	78.0	73.0	80.8	73.8	82.0	74.8	81.0	75.0	79.0	74.0	77.0	73.8	75.0	72.0	75.0	72.0
22	74.0	72.0	79.0	74.0	83.0	75.0	83.8	77.0	81.5	76.0	82.0	76.0	78.0	75.0	79.0	74.0	78.0	74.0
23	74.0	72.0	79.0	74.0	84.5	76.5	87.0	75.0	87.0	73.5	82.6	77.4	77.8	74.0	75.0	72.0	75.0	71.5
24	72.0	70.0	72.0	70.0	74.0	70.5	75.0	70.5	74.0	72.0	74.5	64.5	73.8	67.0	72.5	65.5	72.0	66.0
25	73.0	68.0	75.0	66.0	74.0	65.0	72.5	65.8	71.5	65.0	68.5	64.5	68.0	64.5	69.0	65.0	69.0	65.5
26	69.8	66.0	71.0	67.0	71.5	68.0	74.0	68.0	76.0	68.0	74.0	69.0	72.8	68.0	72.0	68.5	72.0	68.0
27	73.0	69.0	76.0	70.5	76.8	70.0	77.8	72.5	81.0	73.0	75.0	71.0	74.8	70.5	73.0	70.5	73.0	70.5
28	71.0	70.0	74.5	73.0	77.0	75.5	77.0	74.0	80.0	74.0	77.5	75.0	76.5	74.0	75.5	71.0	75.0	71.0
29	74.0	71.5	80.6	73.5	81.0	73.0	81.0	74.0	80.0	74.0	81.5	74.0	77.0	72.0	76.0	71.5	75.5	71.5
30	74.0	70.0	79.5	73.5	81.5	75.0	81.6	75.0	80.0	75.0	82.5	73.0	78.0	72.0	75.5	71.5	75.0	71.5
31	74.0	70.0	78.0	71.0	79.0	74.5	81.0	73.0	81.0	74.0	81.0	76.0	76.0	69.0	73.6	69.5	73.0	70.0
Mean	71.3	68.7	75.8	71.4	79.5	72.5	81.3	72.6	81.2	72.5	79.0	71.4	76.1	70.3	74.7	69.6	73.9	69.7

Thermometers 4 feet above ground. Rain-gauge 1 foot above ground.—SANCHEZ, SAN DOMINGO.

MARCH 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	NW	2	Cum.	8	NW	2	C.N.	10	—	—
2	Cir.-c.	2	NW	0.5	Cir.-c.	4	NW	0.5	—	—	—	—	C.N.	6	N	2	Cum.	5	N	2	Cum.	5	N	3
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	NW	3	Cum.	5	NE	3	Str.	2	—	—
4	—	—	—	—	Cir.-c.	6	S	0.5	—	—	—	—	Str.	1	—	—	—	0	—	—	Cum.	4	—	—
5	Cir.	3	E	1	Cir.-s.	3	ESE	1	—	—	—	—	Cum.	6	SE	2	Cum.	5	SE	2	Cum.	4	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	6	NE	1	—	0	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	1	—	—	Cum.	3	NW	2	C.N.	10	—	—
8	Cir.-s.	2	S	1	Cir.-s.	2	SE	0.3	—	—	—	—	C.N.	7	SW	2	Cum.	6	SSW	2	Cum.	4	—	—
9	Cir.-s.	2	SSW	1	Cir.	3	S	1	—	—	—	—	Cum.	7	N	1	Cum.	6	NE	2	Cum.	4	—	—
10	—	—	—	—	Cir.-c.	6	SE	1	—	—	—	—	C.N.	8	S	4	—	0	—	—	Cum.	3	—	—
11	Cir.-s.	3	NE	1	—	—	—	—	—	—	—	—	Cum.	6	S	7	C.N.	9	NW	7	Nim.	10	NW	—
12	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	NW	2	Cum.	7	NE	2	Cum.	5	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	1	Cum.-s.	3	E	1	Cum.	9	S	3
14	—	—	—	—	Cir.-c.	3	N	0.5	—	—	—	—	—	5	—	—	—	0	—	—	Cum.	2	—	—
15	—	—	—	—	Cir.-s.	3	S	0.3	—	—	—	—	C.N.	10	E	2	C.N.	6	ENE	2	Cum.-s.	3	—	—
16	—	—	—	—	Cir.-c.	4	ENE	1	—	—	—	—	Cum.-s.	5	SW	2	—	0	—	—	Cum.-s.	4	—	—
17	—	—	—	—	Cir.-c.	5	NW	0.5	—	—	—	—	Str.	2	—	—	—	0	—	—	Cum.	6	NNE	2
18	Cir.-s.	2	W	1	Cir.-s.	2	W	0.5	—	—	—	—	C.N.	7	NW	2	Cum.	5	NbyE	4	Cum.	6	NE	4
19	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	ENE	3	C.N.	10	E	2	C.N.	10	E	2
20	—	—	—	—	Cir.-c.	3	WbyN	0.3	—	—	—	—	Cum.-s.	2	—	—	Cum.	6	E	4	Cum.	3	—	—
21	Cir.-c.	1	E	1	Cir.-s.	2	E	1	—	—	—	—	Cum.-s.	6	SE	2	Cum.-s.	7	E	3	Cum.	6	E	3
22	—	—	—	—	Cir.	3	N	0.5	—	—	—	—	Cum.-s.	4	E	2	C.N.	6	ESE	2	Cum.	6	ESE	2
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	—	—	Cum.	6	S	2	C.N.	10	—	—
24	Cir.	3	S	0.3	—	—	—	—	—	—	—	—	Cum.-s.	4	N	4	Nim.	10	N	4	—	10	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	NE	4	Nim.	9	NE	2	Nim.	10	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	NE	2	C.N.	9	NE	2	Nim.	10	—	—
27	—	—	—	—	Cir.-s.	1	N	0.5	—	—	—	—	Nim.	10	E	2	Cum.	5	E	3	Cum.	8	—	—
28	—	—	—	—	Cir.-s.	4	SW	0.5	—	—	—	—	C.N.	9	ENE	3	Cum.	5	E	3	Cum.	5	—	—
29	—	—	—	—	Cir.	2	S	0.5	—	—	—	—	Nim.	10	E	3	Cum.	6	E	4	Cum.	6	E	2
30	Cir.	2	SE	1	—	—	—	—	—	—	—	—	Cum.-s.	6	E	4	C.N.	6	E	3	Cum.	7	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	E	2	Cum.	5	E	3	Cum.	6	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.1	—	—	—	5.3	—	—	—	6.1	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	ESE 1	ESE 2	ENE 4	Calm 0	—	—	D n. Red sunrise. Fine day, with ∞. Dark 8p. ● showers 10p.
2	NW 1	W 1	N 4	N 1	Calm 0	—	—	☼ ⁰ (mist) on hills, ● in E., 6a. Gusty 2p. ● in S. 4p.
3	Calm 0	NE 1	NbyN 2	ENE 1	Calm 0	—	—	D n. ☼ ⁰ (mist) over swamp 6a. Day fine, with ∞. Red sunset.
4	W 1	E 1	SbyE 3	NbyE 3	Calm 0	—	—	D n. Fine throughout, with ∞.
5	Calm 0	EbyN 2	EbyS 3	ENE 1	S 1	—	—	☼ ⁰ (mist) over swamp 6a. Fine all day, with ∞.
6	Calm 0	SW 1	E 1	NE 3	Calm 0	—	—	D n. ☼ ⁰ (mist) over swamp, ∞ ² 6a. Fine all day, with ∞.
7	W 1	swb.W 1	SE 1	N 1	Calm 0	—	—	Fine all day, with ∞.
8	W 1	SbyE 2	EbyS 3	EbyN 1	Calm 0	—	—	☼ over swamp, threatening in E. 6a. Day fine and clear.
9	Calm 0	E 1	ENE 3	EbyS 2	Calm 0	—	—	D n. ☼ over swamp 6a. Day very fine and clear.
10	SE 2	Calm 0	EbyN 1	S 3	Calm 0	—	—	☼ ⁰ (mist) on hills and swamp, clouds low 6a. Day fine.
11	W 1	E 1	NbyW 3	NbyW 3	N 2	—	—	Very close and dull 6a. ☼ on swamp a. Overcast p. Very squally 10p.
12	NW 1	ENE 2	NNW 2	EbyN 1	Calm 0	—	0.7	☼ ⁰ (mist) over swamp 6a. Day fine, with ∞.
13	WbyN 1	S 1	E 4	ENE 2	Calm 0	—	—	Fine all day, with ∞.
14	W 1	SSW 1	EbyS 2	NbyN 2	ENE 1	—	—	☼ over swamp, ∞ ² 6a. Fine all day, with ∞. Red sunset.
15	Calm 0	E 3	E 5	E 2	ESE 1	—	1.0	☼ ⁰ (mist) on hills and swamp, ● a. Double ☼ 8a. ∞ ● showers p.
16	E 1	E 3	E 4	E 1	Calm 0	—	—	D n. ☼ ⁰ (mist) over swamp 6a. Day very fine, with ∞.
17	WbyS 1	Calm 0	EbyS 2	NNE 1	E 1	—	—	☼ over swamp 6a. Fine all day, with ∞. Red sunset.
18	W 1	NW 1	WNW 1	N 5	NE 2	—	—	☼ ⁰ (mist) on hills 6a. Fine till 2p. ● showers in SE. Very gusty 4p.
19	Calm 0	NE 2	SbyS 1	ENE 2	Calm 0	—	48	☼ ⁰ (mist) ● ⁰ from E. 6a. and nearly all day.
20	W 1	EbyN 3	E 4	ENE 3	ENE 1	—	—	☼ over swamp 6a. Red sunrise. Day fine and clear.
21	Calm 0	E 3	E 4	ENE 2	E 1	—	—	D n. Fine till noon, with ∞. Fine p. Partial ☼ 4p.
22	EbyN 1	E 3	E 3	EbyN 1	E 1	—	—	D n. ☼ ⁰ (mist) on hills 6a. Fine day, with ∞. [of Sanchez. < till 6.20p.]
23	E 1	EbyN 1	E 1	W 1	Calm 0	—	—	D n. Very sultry. ● in E., ugly in W. 4p. At 5.30p. ☼ ² passing W. to E., S.
24	NNW 2	NNE 2	NNW 1	NbyE 1	Calm 0	—	48	☼ ⁰ (mist). ● ⁰ from N. till 2p. Fine 6p. Very dark 8p.
25	NbyE 2	NbyE 3	ENE 4	NNE 3	Calm 0	—	—	☼ ² (mist) 6a. Day overcast, with ∞ ● ⁰ . Gusty 6p. Very dark 8p.
26	N 2	N 3	NE 4	NE 4	NE 3	—	0.2	☼ ² over swamp 6a. ☼ ⁰ (mist) ● ⁰ till 10a. ∞ ² noon. Very gusty 2p.
27	NE 2	ENE 1	EbyN 3	E 1	Calm 0	—	1.5	☼ ⁰ (mist) on hills and swamp, ☼ ⁰ 6a. Fine 10a. ● showers 4p.
28	WNW 1	SE 1	E 4	ENE 3	Calm 0	—	35	☼ ⁰ (mist), 6a. Day fine, from 10a. Very still at 10p.
29	E 1	E 3	ESE 3	E 1	E 1	—	—	☼ ⁰ (mist) ● ⁰ 6a. — a. Day fine, but with ● ² in S. ∞ noon.
30	E 1	E 3	E 4	E 1	Calm 0	—	—	D n. ☼ 6.40a. Day fine, with ∞. ● shower in SE. 2p.
31	E 1	E 3	EbyS 4	EbyN 1	Calm 0	—	—	D n. Day fine, with ∞. ● showers in S. Very still at 8p.
Mean	0.9	1.7	2.8	2.0	0.5	—	1.65	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

APRIL 1886.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 30°091	ins. 30°105	ins. 30°102	ins. 30°098	ins. 30°022	ins. 30°028	ins. 30°033	ins. 30°069	ins. 30°092	66°0	86°0	138°0	63°0	—	hours. 11°5	in. 726	
2	°077	°089	°092	°064	30°033	30°018	°029	°049	°079	71°0	92°0	147°0	67°0	—	11°5	749	
3	°000	°039	°055	°023	29°963	29°995	°015	°017	°037	70°0	96°0	148°0	65°5	—	9°0	694	
4	°038	°047	°055	°040	30°038	30°000	°009	°025	°027	68°0	86°0	138°0	66°0	—	8°5	793	
5	°023	°059	°072	°062	°030	29°995	°018	°038	°049	69°0	85°0	136°0	67°0	—	5°5	756	
6	°045	°082	°078	°072	°032	30°002	°010	°039	°082	69°0	85°0	142°0	66°5	—	11°0	741	
7	°065	°092	°070	°050	°010	°015	°010	°049	°052	67°0	85°5	138°5	67°0	—	11°0	697	
8	°075	°072	°078	°060	°037	30°032	°020	°048	°062	68°0	87°0	138°5	65°5	—	11°5	682	
9	°075	°062	°055	°062	30°055	29°997	30°010	30°031	°015	69°0	85°0	141°0	64°0	—	12°0	716	
10	°028	°027	°038	°020	29°992	29°962	29°968	29°993	°032	67°0	86°6	—	65°5	—	12°0	726	
11	°037	°032	°042	°012	30°000	30°009	30°012	30°035	°037	69°0	85°0	—	67°0	—	8°0	592	
12	°048	°077	°083	°042	30°010	29°982	30°000	30°032	30°072	67°0	86°0	—	64°5	—	5°0	699	
13	30°017	30°052	30°040	30°012	29°957	°932	29°940	29°957	29°999	72°0	86°0	—	63°5	—	4°5	711	
14	29°967	29°969	29°938	29°904	844	861	866	859	900	73°5	91°0	—	69°0	—	8°5	697	
15	831	869	843	820	791	671	978	809	826	68°5	87°0	—	68°5	—	4°0	675	
16	792	824	811	781	754	741	733	741	733	69°0	89°0	—	63°5	—	5°0	759	
17	771	783	761	755	727	727	734	811	813	67°0	92°0	—	64°5	—	12°5	682	
18	816	813	814	790	752	753	779	851	963	68°0	92°0	—	67°0	—	12°0	689	
19	882	908	904	875	833	834	834	904	921	71°0	89°0	—	69°0	—	12°5	728	
20	891	923	932	882	873	819	840	849	29°883	70°0	92°0	—	67°0	—	12°5	624	
21	911	943	911	880	856	860	865	901	30°003	69°0	92°0	—	66°0	—	12°0	754	
22	925	932	935	930	904	885	888	907	29°907	70°0	87°0	—	66°5	—	11°5	637	
23	29°920	29°947	29°902	29°988	29°942	29°915	29°927	29°942	29°967	69°0	85°0	—	68°5	—	11°5	580	
24	30°028	30°055	30°075	30°071	30°038	30°030	30°052	30°057	30°100	65°5	81°0	—	64°0	—	0°0	545	
25	100	117	100	095	090	090	050	057	082	65°0	83°0	—	61°5	—	4°0	626	
26	060	077	075	060	30°020	29°982	29°998	022	055	65°0	87°0	—	61°0	—	10°5	699	
27	017	019	050	035	29°984	960	958	003	027	71°0	86°0	—	69°0	—	5°5	756	
28	027	061	067	032	30°020	995	998	30°006	049	70°5	85°0	—	70°0	—	3°5	756	
29	025	043	037	009	29°982	914	937	29°950	022	72°0	88°0	—	68°0	—	12°5	807	
30	30°029	30°050	30°027	30°004	29°951	29°933	29°944	30°000	30°032	75°0	93°0	—	71°0	—	12°0	766	
Mean	29°987	30°005	30°004	29°984	29°951	29°930	29°949	29°969	29°997	67°0	87°7	—	66°4	—	271°0	702	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	68°	67°	76°	72°	83°	76°	83°	75°	82°	75°	80°	75°	78°	74°	76°	72°	75°	72°
2	73°	71°	77°	74°	83°	75°	87°	77°	76°	72°	76°	72°	78°	74°	76°	72°	76°	73°
3	72°	71°	78°	75°	85°	75°	88°	76°	91°	72°	71°	73°	73°	71°	73°	72°	72°	70°
4	70°	69°	74°	72°	82°	78°	79°	75°	79°	74°	79°	73°	75°	72°	74°	71°	74°	71°
5	73°	71°	76°	73°	80°	75°	81°	75°	85°	75°	81°	75°	79°	73°	76°	72°	75°	72°
6	71°	70°	76°	73°	80°	75°	82°	75°	82°	74°	81°	74°	78°	72°	76°	71°	75°	71°
7	71°	70°	77°	74°	81°	74°	83°	74°	82°	74°	80°	74°	77°	73°	75°	70°	74°	71°
8	71°	69°	77°	74°	80°	75°	82°	73°	85°	74°	82°	73°	79°	70°	76°	70°	74°	70°
9	70°	69°	74°	72°	81°	74°	81°	74°	80°	73°	82°	72°	78°	71°	74°	69°	74°	70°
10	69°	67°	74°	71°	82°	74°	76°	73°	81°	72°	81°	73°	78°	73°	76°	70°	75°	71°
11	74°	70°	77°	74°	81°	75°	82°	74°	78°	73°	76°	73°	74°	72°	74°	73°	73°	71°
12	72°	70°	74°	72°	80°	74°	82°	74°	83°	74°	81°	74°	79°	73°	75°	73°	75°	73°
13	74°	70°	76°	72°	80°	75°	84°	75°	83°	75°	81°	75°	79°	74°	77°	74°	76°	73°
14	74°	72°	76°	73°	81°	75°	85°	75°	85°	76°	81°	75°	81°	73°	80°	74°	79°	74°
15	72°	71°	75°	72°	77°	72°	79°	72°	83°	74°	80°	75°	75°	74°	73°	72°	70°	68°
16	70°	67°	71°	70°	79°	75°	83°	76°	81°	76°	77°	72°	79°	76°	76°	73°	74°	72°
17	70°	68°	76°	73°	80°	73°	86°	75°	90°	74°	85°	73°	80°	70°	76°	72°	75°	71°
18	71°	69°	76°	73°	81°	74°	85°	75°	88°	75°	83°	75°	79°	78°	79°	74°	78°	75°
19	74°	72°	77°	74°	83°	77°	85°	76°	86°	77°	82°	75°	81°	75°	79°	73°	77°	75°
20	75°	72°	77°	73°	83°	76°	87°	74°	89°	75°	87°	75°	84°	74°	79°	70°	75°	68°
21	72°	70°	75°	72°	84°	77°	88°	77°	85°	74°	84°	77°	79°	73°	79°	73°	78°	74°
22	72°	70°	76°	72°	81°	74°	81°	72°	84°	72°	82°	72°	78°	72°	78°	72°	76°	71°
23	71°	70°	76°	73°	74°	70°	80°	70°	79°	72°	78°	70°	75°	70°	74°	69°	73°	70°
24	69°	67°	71°	69°	76°	71°	76°	67°	79°	69°	77°	68°	74°	66°	73°	67°	73°	67°
25	67°	67°	77°	70°	80°	70°	81°	71°	79°	70°	78°	70°	75°	70°	73°	67°	73°	67°
26	72°	70°	78°	73°	81°	73°	82°	74°	84°	74°	81°	75°	79°	73°	76°	71°	76°	72°
27	74°	71°	77°	74°	78°	75°	81°	75°	83°	75°	82°	76°	79°	74°	78°	73°	76°	72°
28	73°	71°	75°	72°	78°	74°	81°	75°	81°	75°	81°	76°	78°	73°	77°	73°	76°	73°
29	74°	72°	79°	74°	83°	77°	86°	78°	85°	79°	84°	77°	84°	75°	82°	75°	80°	75°
30	78°	74°	80°	75°	83°	77°	86°	77°	91°	78°	89°	76°	85°	75°	82°	74°	80°	74°
Mean	72°	70°	76°	72°	80°	74°	82°	74°	83°	74°	80°	75°	78°	72°	76°	71°	75°	71°

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

APRIL 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	E	3	Cum.	5	—	—	—	10	—	—
2	Cir.-c.	3	W	0.5	Cir.-c.	2	WbyN	0.5	—	—	—	—	Cum.-s.	5	E	2	C.N.	8	E	3	—	7	—	—
3	Cir.-c.	2	NW	0.3	—	—	—	—	—	—	—	—	Cum.-s.	5	SE	3	C.N.	9	E	2	Nim.	10	—	—
4	Cir.-c.	2	N	1	Cir.	1	NNW	0.5	—	—	—	—	Cum.-s.	6	E	2	Cum.	7	EbyN	2	—	7	—	—
5	Cir.-s.	3	NW	0.5	Cir.-s.	3	WbyN	0.5	—	—	—	—	C.N.	6	E	3	Cum.	4	E	2	—	6	—	—
6	—	—	—	—	Cir.	2	SSW	0.3	—	—	—	—	Str.	2	E	2	Cum.-s.	6	E	3	Cum.	6	—	—
7	Cir.-s.	1	W	0.5	Cir.	1	SSW	0.5	—	—	—	—	Cum.	4	E	2	Cum.	7	E	2	Cum.	4	—	—
8	Cir.	2	S	0.3	Cir.-c.	3	SE	0.5	—	—	—	—	Cum.-s.	5	ESE	2	Cum.	4	E	2	Cum.	5	—	—
9	—	—	—	—	Cir.	1	S	0.3	—	—	—	—	Str.	3	ESE	2	Cum.	8	E	2	Cum.	5	—	—
10	—	—	—	—	Cir.-s.	4	ESE	0.5	—	—	—	—	Cum.-s.	2	—	—	Cum.	5	E	3	Cum.	4	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	ESE	2	C.N.	10	E	2	Nim.	10	—	—
12	—	—	—	—	Cir.-s.	2	NW	1	—	—	—	—	S.N.	10	E	1	Cum.	6	E	2	Nim.	8	—	—
13	Cir.-s.	3	S	0.3	Cir.-s.	3	SSW	0.5	—	—	—	—	Nim.	6	E	3	Cum.	5	E	2	Cum.	4	—	—
14	Cir.-c.	4	SW	0.3	Cir.-s.	1	SW	0.3	—	—	—	—	Cum.-s.	2	ESE	2	Cum.	8	E	2	Cum.	3	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	3	Cum.	9	SE	3	Cum.	9	—	—
16	Cir.-c.	2	SW	0.5	—	—	—	—	—	—	—	—	Cum.	6	S	3	Nim.	10	ESE	2	Cum.	6	—	—
17	—	—	—	—	Cir.-s.	2	SSW	0.3	—	—	—	—	—	5	—	—	Cum.	6	SE	2	Cum.	9	—	—
18	—	—	—	—	Cir.	5	NNW	0.5	—	—	—	—	Str.	1	—	—	Cum.	3	NW	2	Cum.	7	N	2
19	Cir.	3	SW	0.5	Cir.	3	S	0.3	—	—	—	—	Cum.-s.	4	SE	1	Cum.	4	E	2	Cum.	2	—	—
20	—	—	—	—	Cir.	1	W	0.5	—	—	—	—	Cum.-s.	1	—	—	Cum.	8	S	2	Cum.	4	—	—
21	—	—	—	—	Cir.	1	W	0.5	—	—	—	—	Str.	1	—	—	Cum.	6	S	2	Cum.	7	—	—
22	Cir.-s.	2	W	0.5	—	—	—	—	—	—	—	—	Cum.	6	NNW	2	Cum.	8	NW	2	Cum.	4	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	NW	3	Cum.	8	NE	3	Cum.	7	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	SE	2	C.N.	9	SE	3	—	8	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.-s.	9	E	2	Cum.	8	E	2
26	—	—	—	—	Cir.	4	SW	0.3	—	—	—	—	Cum.-s.	4	—	—	Cum.	5	E	3	Cum.	5	—	—
27	—	—	—	—	Cir.-s.	2	W	0.5	—	—	—	—	Cum.-s.	9	ESE	2	Cum.	6	E	2	Cum.	9	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	EbyS	2	C.N.	9	E	2	—	10	—	—
29	—	—	—	—	Cir.-s.	2	NE	1	—	—	—	—	Cum.-s.	2	W	2	Cum.	8	SW	2	Cum.	6	S	2
30	—	—	—	—	Cir.-s.	4	E	1	—	—	—	—	Cum.-s.	2	S	2	Cum.	1	—	—	Cum.	6	SSE	2
Mean	—	—	—	—	—	—	—	—	—	—	—	—	5.0	—	—	—	6.7	—	—	—	6.5	—	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	W 1	— 1	— 3	— 2	Calm 0	—	—	☼ ⁰ (mist) on swamp 6a. ∞ a. Fine p. Very dark in SW. 4p.
2	Calm 0	Calm 0	EbyN 1	E 2	Calm 0	—	—	☼ ⁰ (mist) 6a. ∞ 8a. Fine till 2p. Very dark in S. 6p., with distant T.
3	Calm 0	E 1	SE 1	Calm 0	Calm 0	—	—	Distant T in WSW. 2p., moving Ed. < 2.30p. ☼ ² 3.20p.—5.45p. (4.80 ins.) with T ⁰ .
4	Calm 0	S 1	E 3	Calm 0	Calm 0	—	6.00	☼ ² a. Very close and sulphury 8a. Very dark to NE., with ☼ noon. [☼ till 8p.
5	Calm 0	EbyN 2	E 3	NE 2	Calm 0	—	—	☼ ² a. Fine day, but very dark in SW. 6p.
6	Calm 0	E 3	E 3	EbyN 2	Calm 0	—	—	☼ ² on hills and swamp till 8a., then fine. Very ugly in SW. 6p.
7	W 1	E 1	E 4	E 3	Calm 0	—	—	☼ ² (mist) on hills and swamp till 8a., then fine. ☼ in S. 4p. ∞ 8p.
8	Calm 0	sebye 1	EbyS 3	E 1	Calm 0	—	—	☼ ² on swamp 6a. Day fine. At 6.15p. slight earthquake, lasting 5 secs. travelling from W.
9	Calm 0	EbyS 2	ENE 1	NNE 1	Calm 0	—	—	☼ ² over swamp 6a. Fine a. ∞ noon and 2p. Very fine 4p. Red sunset.
10	WNW 1	SbyE 1	NEbye 2	ENE 1	Calm 0	—	—	☼ ⁰ (mist) on hills 6a. ∞ 8a. Very fine 2p. ☼ in NE. 4p. Very still and fine 8p.
11	W 1	ESE 2	SSE 3	Calm 0	Calm 0	—	—	☼ ⁰ on swamp 6a. ∞ 10a. ☼ ² in SW. 2p. ☼ 4p.
12	W 1	SSW 1	E 3	SE 1	Calm 0	—	*08	☼ ² on swamp 6a. Fine day. Very dark, with ☼ ² in S. 4p.—6p.
13	Calm 0	E 3	E 3	E 3	E 1	—	*12	☼ ² on swamp 6a. Day overcast. ☼ showers in S. p. Red sunset.
14	E 1	E 1	E 2	SbyE 3	SE 1	—	—	☼ ⁰ (mist) on hills 6a. Fine 8a.—2p., with ∞ 10a. Overcast p. ☼
15	Calm 0	E 1	E 1	ENE 1	Calm 0	—	*26	☼ ⁰ (mist) on hills, ☼ 6a. ☼ ² from W. 6.15p.—7.15p. ☼ in W. from 7.15p.—8.30p.
16	W 1	ESE 1	EbyN 1	Calm 0	Calm 0	—	1*39	☼ ² on swamp. ☼ ² in SW. passing to N. 2p.—4.45p. ☼ 4p. ☼ in SW. 5.30p.
17	Calm 0	E 1	EbyN 1	NbyE 2	Calm 0	—	*35	☼ ² on swamp 6a.—8a. Fine, with ∞, till 6p. Sulphury at noon. ☼ ² 8p. [Fine 8p.
18	Calm 0	Calm 0	E 1	E 1	Calm 0	—	1*00	☼ ² on swamp, ∞ 6a. Fine day, with ∞. < in W. 10p.
19	W 1	SE 2	E 2	E 1	Calm 0	—	—	☼ n. ☼ on swamp 6a.—8a. Fine all day, with ∞.
20	Calm 0	EbyS 1	ESE 1	SbyE 3	Calm 0	—	—	☼ Fine all day, with ∞. Close at noon. One peal of T in S. 3.15p.
21	W 1	SbyE 1	NbyE 1	NbyE 2	Calm 0	—	—	☼ ⁰ on swamp, ☼ ∞ 6a. Fine all day, with ∞.
22	W 1	W 1	NbyE 3	N 2	Calm 0	—	—	☼ n. Fine day. Threatening appearance in SW. 2p.
23	W 1	N 1	NEbyN 2	S 1	Calm 0	—	*10	☼ ⁰ (mist) 6a. ☼ ⁰ (mist) on hills till 10a. ☼ ⁰ showers 10a. Overcast day.
24	NNE 1	WbyS 1	NE 1	E 1	Calm 0	—	—	☼ ⁰ (mist) till 10a. Day overcast and ugly, with ☼ in E.
25	Calm 0	EbyS 2	EbyN 3	ENE 1	ENE 1	—	—	☼ n. ☼ ⁰ (mist) on hills and swamp 6a.—8a. Fine, with ∞ p.
26	WbyN 1	SSE 1	E 3	ENE 2	Calm 0	—	—	☼ n. Fine all day, with ∞ at noon.
27	W 1	Calm 0	E 3	E 2	Calm 0	—	*63	☼ ⁰ (mist) on hills till noon. Overcast most of day. Ugly in E.
28	Calm 0	E 1	E 3	E 3	Calm 0	—	*13	☼ ⁰ (mist) on hills and swamp 6a. Sparkling ☼ ⁰ a. Overcast all day.
29	Calm 0	E 2	E 3	SSE 3	SE 1	—	—	☼ ⁰ (mist) on hills and swamp 6a.—8a. Day very fine. < in WNW. 10p.
30	Calm 0	Calm 0	S 3	S 3	Calm 0	—	—	☼ Fine all day, with ∞ ² .
Mean	0.5	1.2	2.2	1.6	0.1	—	10.06	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

MAY 1886.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.			°	°	°	hours.	ins.	
1	30°002	30°003	30°017	29°982	29°952	29°939	29°972	29°992	30°005	76°0	90°0	—	75°0	—	12°5	843	
2	009	028	047	29°996	29°978	982	987	992	062	76°5	94°0	—	72°0	—	4°5	820	
3	045	045	040	30°044	30°022	29°997	29°999	29°998	040	76°0	91°0	—	74°5	—	7°5	790	
4	089	107	100	092	052	30°040	30°040	30°083	093	75°0	88°0	—	73°6	—	0°5	741	
5	072	052	063	075	042	005	30°030	30°060	30°037	71°0	85°0	—	69°5	—	0°0	749	
6	30°060	060	059	047	018	30°007	29°987	29°992	29°975	71°0	82°0	—	69°5	—	0°0	738	
7	29°980	30°009	30°009	30°007	30°017	29°949	29°949	952	979	73°0	83°0	—	72°0	—	0°0	810	
8	929	29°947	29°928	29°910	29°922	872	878	890	903	74°0	86°0	—	73°5	—	0°0	788	
9	937	29°959	29°965	29°945	909	900	900	915	956	75°0	89°0	—	68°0	—	4°0	840	
10	29°982	30°016	30°016	30°000	950	29°922	967	29°982	29°977	73°5	89°0	—	70°0	—	5°0	930	
11	30°007	035	052	049	29°998	30°009	29°972	30°042	30°055	72°0	82°0	—	71°0	—	1°5	840	
12	078	095	100	095	30°055	010	30°057	115	127	67°5	84°5	—	66°5	—	12°5	578	
13	125	115	100	085	095	095	080	112	123	68°0	85°0	—	66°0	—	8°5	620	
14	111	092	104	098	075	048	043	062	075	66°0	84°0	—	62°0	—	12°5	689	
15	083	070	082	063	30°042	30°015	013	039	047	67°0	84°0	—	63°0	—	11°5	628	
16	062	047	053	035	29°987	29°997	000	032	032	66°0	82°0	—	62°0	—	8°0	630	
17	068	065	083	078	30°065	30°048	056	112	135	67°0	85°0	—	65°0	—	10°0	684	
18	108	112	126	125	098	095	100	097	092	67°0	84°0	—	62°0	—	8°5	704	
19	127	142	128	123	095	080	080	089	115	71°0	84°0	—	66°0	—	0°0	609	
20	123	112	115	112	087	072	045	060	102	71°0	85°0	—	67°0	—	12°5	738	
21	107	092	119	095	072	052	035	050	087	72°0	83°0	—	69°0	—	8°0	756	
22	105	120	115	107	074	034	030	055	098	72°0	86°0	—	68°0	—	12°5	812	
23	117	120	112	110	064	037	020	050	077	72°0	87°0	—	69°0	—	13°0	711	
24	097	109	095	087	026	017	015	015	086	70°5	88°0	—	66°0	—	12°5	772	
25	082	086	088	090	054	037	030	014	070	72°0	86°0	—	68°5	—	12°0	731	
26	067	080	090	059	040	019	017	042	094	71°0	90°0	—	69°0	—	12°0	709	
27	106	100	090	079	058	30°037	30°027	045	068	71°0	94°0	—	70°5	—	11°5	820	
28	052	053	060	031	30°016	29°984	29°992	015	063	76°0	90°0	—	68°5	—	10°0	701	
29	30°025	30°020	30°040	30°019	29°990	956	982	008	021	73°5	93°5	—	70°0	—	8°0	826	
30	29°975	29°977	29°964	29°979	929	950	995	30°005	037	72°0	91°5	—	69°7	—	0°0	708	
31	29°993	29°995	29°995	29°984	29°978	29°950	29°962	29°978	30°012	69°0	88°0	—	67°0	—	5°0	777	
Mean	30°056	30°060	30°063	30°052	30°025	30°005	30°008	30°029	30°053	71°4	86°9	—	68°5	—	239°0	747	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	76°6	74°0	79°8	75°8	84°8	74°8	88°0	79°5	87°0	79°0	87°0	76°0	85°0	78°0	82°5	77°0	82°0	79°0
2	79°0	76°0	82°5	76°8	85°0	72°5	88°0	79°0	92°0	79°0	87°0	77°5	86°0	78°0	83°0	77°0	82°0	77°5
3	80°0	76°0	81°5	76°5	85°0	76°5	87°0	78°0	88°0	79°0	83°0	75°0	81°8	76°0	82°0	75°0	81°0	75°5
4	77°0	74°0	78°8	74°8	79°5	76°0	82°0	75°0	83°5	77°0	80°6	75°5	80°0	75°5	79°0	74°0	78°0	74°5
5	75°0	72°0	79°0	74°0	80°0	75°5	81°5	75°0	81°8	74°3	81°0	74°0	79°3	73°8	79°0	73°5	78°0	73°0
6	73°0	71°0	76°0	74°0	78°4	74°5	77°0	73°0	81°0	74°0	77°0	73°5	74°6	73°5	75°0	73°5	75°0	74°0
7	76°0	74°0	77°0	74°5	77°0	75°0	78°0	75°0	78°0	75°0	78°0	74°5	77°0	75°0	75°4	73°4	75°6	73°2
8	78°0	75°5	79°0	75°0	80°5	75°5	83°0	76°5	83°0	76°0	82°5	75°5	81°0	76°0	80°0	75°5	78°0	75°0
9	76°5	75°0	76°0	75°0	77°5	75°0	81°5	77°0	85°5	79°0	84°5	78°0	82°0	76°5	81°0	75°0	79°0	75°0
10	76°0	74°5	79°0	75°5	79°5	76°0	84°5	80°0	82°5	76°0	81°5	76°5	76°0	74°5	75°0	74°0	73°5	72°0
11	74°5	73°5	74°5	73°0	75°5	74°0	76°5	75°0	79°5	74°0	77°0	72°0	76°0	72°0	74°0	71°5	73°0	71°5
12	71°5	68°5	77°0	73°5	80°0	76°5	81°5	70°5	80°5	72°0	79°5	71°0	77°0	70°5	74°0	69°0	73°0	69°0
13	70°0	68°0	75°0	71°5	80°0	76°0	80°8	71°4	82°0	72°5	80°0	71°6	79°0	70°0	75°0	68°5	73°0	68°0
14	68°0	66°0	77°6	73°6	79°0	73°0	81°0	73°4	79°6	72°0	80°0	72°0	77°3	71°0	75°3	69°2	73°0	69°0
15	71°0	68°5	72°8	70°0	78°5	72°5	79°0	71°0	82°0	72°8	81°0	71°8	77°5	71°0	76°0	69°0	74°0	69°0
16	69°8	67°0	73°0	70°0	80°5	73°0	81°5	72°0	81°0	71°0	82°0	70°8	78°0	70°0	74°5	69°3	74°0	69°0
17	70°0	68°0	76°0	71°0	80°0	73°5	81°4	73°4	80°9	70°8	81°0	73°0	77°4	70°5	75°0	70°0	74°0	70°5
18	70°0	68°5	78°4	74°0	79°0	72°0	80°8	73°6	80°0	74°0	81°8	73°2	79°0	73°0	77°0	71°0	76°0	71°5
19	74°0	70°0	79°0	74°0	81°6	73°0	79°0	70°5	80°6	72°0	79°0	74°0	78°5	73°0	77°5	72°0	74°0	71°0
20	72°0	68°8	78°0	70°4	81°5	73°0	82°2	75°0	83°4	75°6	82°0	75°0	80°8	74°3	78°0	73°0	76°0	71°5
21	74°8	72°0	75°8	73°0	78°0	75°0	81°0	75°0	82°0	76°4	81°0	76°0	81°0	75°4	78°4	74°0	78°0	73°0
22	75°0	72°0	80°0	74°0	81°0	75°5	83°0	77°0	85°0	74°5	85°0	76°5	82°0	75°0	80°0	73°5	78°5	72°5
23	75°0	73°0	83°0	76°0	82°0	76°0	84°0	75°0	85°5	74°5	84°0	74°0	82°8	71°0	75°5	70°0	74°0	73°0
24	74°0	71°0	77°5	74°0	82°0	75°0	84°0	76°5	86°5	77°0	84°0	76°5	82°0	76°0	81°5	74°0	78°0	75°0
25	76°0	73°0	78°0	74°0	82°0	76°0	84°0	75°5	85°0	76°5	84°6	77°0	84°0	77°0	82°0	76°0	78°0	75°0
26	78°0	75°0	82°0	76°0	84°0	76°0	87°0	77°5	89°0	79°0	85°0	76°0	84°0	79°6	83°0	77°0	80°0	75°0
27	78°0	75°0	80°4	77°0	84°0	77°0	88°0	79°0	92°0	80°0	85°5	79°0	83°0	77°4	81°0	76°0	80°0	75°0
28	77°0	74°5	80°5	75°0	83°5	76°0	86°0	75°5	88°0	78°0	85°5	76°8	82°8	76°5	81°0	76°0	79°0	75°0
29	75°6	73°0	81°0	75°5	84°5	77°5	84°0	78°8	90°2	78°0	85°5	76°0	81°5	74°5	79°0	75°0	78°0	75°5
30	75°5	73°0	79°5	74°5	83°0	75°5	88°0	76°4	85°7	77°5	85°0	73°5	81°5	73°0	74°5	72°5	74°0	72°5
31	71°8	70°0	73°5	72°0	81°5	76°8	85°3	77°0	80°6	77°0	77°5	75°0	76°0	73°3	76°0	75°0	76°0	75°0
Mean	74°5	71°9	78°1	74°0	80°9	74°9	83°0	75°4	83°9	75°6	81°8	73°7	79°9	75°2	78°2	73°4	75°7	73°1

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

MAY 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	Cir.	1	W	0.5	—	—	—	—	Cum.	5	SE	2	Cum.	7	SE	3	Cum.	4	—	—
2	—	—	—	—	Cir.-s.	2	W	1	—	—	—	—	Cum.	6	SSE	4	C.N.	7	S	2	Cum.	6	—	—
3	Cir.-c.	3	W	0.5	—	—	—	—	—	—	—	—	Str.	5	SE	5	C.S.N.	10	S	3	C.N.	8	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	S.N.	10	E	1	C.S.N.	10	E	2	C.N.	10	—	—
5	—	—	—	—	Cir.	0.5	W	0.3	—	—	—	—	C.S.N.	10	SE	2	C.N.	9	SE	1	C.N.	10	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	C.N.	10	E	1	—	10	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	E	2	C.N.	10	E	2	—	10	—	—
8	Cir.-s.	0.5	NW	0.5	—	—	—	—	—	—	—	—	C.N.	9	SE	5	C.N.	8	ESE	4	—	10	—	—
9	—	—	—	—	Cir.-s.	2	NW	1	—	—	—	—	C.N.	10	E	5	Cum.	6	E	2	Cum.	2	—	—
10	—	—	—	—	Cir.-s.	1	S	1	—	—	—	—	C.N.	9	—	—	Cum.	7	E	2	Nim.	10	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	NE	3	C.N.	9	NE	2	Nim.	9	ENE	2
12	—	—	—	—	Cir.	1	SW	0.5	—	—	—	—	Cum.-s.	7	E	2	Cum.	7	E	1	Cum.	7	NE	4
13	—	—	—	—	—	—	—	—	—	—	—	—	Str.	2	—	—	Cum.	9	NE	1	Cum.-s.	2	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	Str.	5	—	—	Cum.	7	NE	1	—	0	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	NE	1	Cum.-s.	8	NE	1	Cum.-s.	2	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	NE	2	Cum.-s.	6	NE	2	Cum.	6	E	1
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	N	2	Cum.	8	NE	2	Cum.	2	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	NE	1	Cum.	9	NE	1	Cum.	7	NE	1
19	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	—	—	C.N.	10	E	2	—	0	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	E	1	Cum.	4	E	1	Cum.	3	—	—
21	—	—	—	—	Cir.-s.	2	S	1	—	—	—	—	Nim.	10	NE	2	Cum.	6	E	2	Cum.	8	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	NE	3	Cum.	4	ENE	2	Cum.	3	—	—
23	—	—	—	—	Cir.-s.	1	W	0.5	—	—	—	—	Cum.-s.	3	ESE	3	Cum.	3	E	2	Cum.	2	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	SE	4	Cum.	3	SE	3	Cum.	6	NE	1
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	SE	3	Cum.	2	—	—	Cum.	4	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	S	2	Cum.	4	S	1	Cum.	8	—	—
27	Cir.-c.	5	NE	1	Cir.	1	N	0.3	—	—	—	—	Cum.-s.	4	SE	3	C.N.	7	SSE	2	Cum.	8	SE	—
28	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	SE	2	Cum.	6	ESE	1	—	10	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	3	Cum.	8	ESE	2	—	10	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	S	2	C.S.N.	8	SE	1	—	10	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	10	SE	1	—	10	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.4	—	—	—	7.2	—	—	—	6.4	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	ENE 1	E 3	E 3	S 3	Calm 0	—	—	☁ (mist) on hills 6a. Fine all day, with ∞ at times.
2	ENE 1	E 1	S 3	SbyE 3	S 2	—	—	☁ (mist) on swamp and hills a. Ugly in S. 10a. T 2p. with ☁ ² in SW.
3	ESE 3	E 2	EbyN 3	EbyS 3	SE 2	—	—	Fine a., with ∞. ☁ showers in S. noon, and 4p.; in E. 6p. and 8p.
4	Calm 0	E 2	E 3	Calm 0	Calm 0	—	—	∞ 6a. Overcast all day, with threatening appearance in the E.
5	Calm 0	E 3	E 3	Calm 0	Calm 0	—	—	Overcast, with threatening appearance in SE. T 1 in S. at 4p.
6	Calm 0	E 1	E 3	Calm 0	Calm 0	1'35	—	☁ ² (gale) ☁ 5a. Overcast all day, with ☁ (mist) ☁ in S. 4p.
7	ENE 1	E 1	E 2	E 2	Calm 0	1'25	—	☁ (mist) on hills, ☁ a. and p. Very ugly appearance 4p. Squally 6p.
8	E 3	E 3	ESE 6	ESE 4	Calm 0	—	—	Overcast and threatening most of day. ☁ showers 4p.
9	NEbyE 1	E 4	SE 3	SEbyS 2	Calm 0	2'15	—	☁ (mist) on hills 6a. Overcast and ugly till noon. Fine from 2p.
10	Calm 0	Calm 0	NNE 2	Calm 0	Calm 0	1'50	—	☁ (mist) on hills 6a. Very dull till noon. Threatening in E. 4p. ☁ ² 8p.
11	NW 1	W 1	N 2	E 1	Calm 0	.85	—	☁ (mist) 6a. Overcast all day. ☁ till noon. Very dull 8p.
12	NE 1	SW 1	NE 1	Calm 0	Calm 0	—	—	Very fine day. ☁ shower in S. 2p.
13	W 1	E 1	EbyN 2	EbyN 1	Calm 0	—	—	☁ n. ☁ on swamp 6a. Threatening in E. 2p. Very fine later p.
14	Calm 0	S 1	EbyN 1	Calm 0	S 1	—	—	☁ n. ∞ till 8a. Overcast and ugly in E. 10a. Fine p., with ∞.
15	Calm 0	Calm 0	EbyS 1	N 1	Calm 0	—	—	☁ n. ∞ ² a. and p. Sultry 10a. Threatening in SE. noon. Close 2p.
16	W 1	S 1	Calm 0	NE 1	Calm 0	—	—	☁ n. ∞ 6a. Day very fine, with ∞.
17	Calm 0	S 1	E 2	NbyE 2	Calm 0	—	—	☁ n. Fine all day, with ∞.
18	W 1	SW 1	E 1	ENE 3	ENE 2	—	—	☁ n. Fine a., with ∞. Threatening in E. 10a. Overcast 2p. Fine later p.
19	W 1	ESE 2	ENE 2	Calm 0	Calm 0	—	—	☁ n. Overcast from 10a., with ☁ in E. Ugly appearance 6p. ∞ 8p.
20	Calm 0	ESE 2	E 3	E 3	Calm 0	—	—	☁ n. Very fine day.
21	Calm 0	Calm 0	ESE 1	ESE 3	E 1	.91	—	☁ (mist) ☁ ⁰ till 10a. Two peals of T in NE. 8.30a. Fine p.
22	W 1	ESE 3	EbyS 3	ENE 1	Calm 0	—	—	☁ ⁰ n. ☁ (mist) on N. hills 10a. Day very fine and clear. Pretty sunset.
23	Calm 0	ESE 2	EbyS 3	E 1	ENE 1	—	—	☁ ⁰ n. Very fine day. Beautiful sunset. ∞ 8p.
24	Calm 0	E 3	SE 3	E 2	NE 2	—	—	☁ (mist) on hills till 8a. Day fine. ☁ showers in S. p.
25	Calm 0	E 2	E 3	EbyN 3	ESE 2	—	—	☁ (mist) on hills and swamp a. Day very fine. ∞ 4p.
26	Calm 0	E 1	ESE 2	ENE 2	Calm 0	—	—	☁ n. ☁ (mist) a. Fine 8a.—2p., with ∞. Threatening in NE. 4p. < in E. 10p.
27	Calm 0	E 1	ESE 2	E 2	Calm 0	—	—	☁ (mist) on hills 6a. Very dull and close a. T in NE. 4p. ☁ 5p.
28	W 1	E 1	E 3	E 3	Calm 0	.30	—	☁ (mist) on hills 6a. Day fine. ∞ K in SW. 6p., with ☁ shower in NE.
29	W 1	E 1	ESE 1	NEbyE 1	Calm 0	—	—	Day fine, with ∞. T ☁ ² < in SW. 6p.—7p. Very fine though dark 10p.
30	Calm 0	Calm 0	ESE 1	Calm 0	Calm 0	—	—	T ☁ ² in SW. early p. ☁ K ² (right overhead) 3p., passing NW. to SE. T ☁ till 10p.
31	— 1	Calm 0	ESE 2	Calm 0	Calm 0	2.29	—	☁ (mist) till 10a. Very oppressive. ☁ ² in S. 2p., passing to NNE. T ☁ < in [S. 4p.
Mean	0.6	1.5	2.3	1.5	0.4	—	10.60	

NOTE.—After the sun set on the 27th its rays were reflected across the sky in a double cone, the base of one cone being at the western horizon, that of the other on the eastern horizon, the two apices meeting in the zenith. The colour was a mixed red, and it lasted about 10 minutes.

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

JUNE 1886.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 30°003	ins. 30°042	ins. 30°053	ins. 30°030	ins. 29°962	ins. 29°997	ins. 29°965	ins. 29°997	ins. 30°018	71°5	89°5	—	69°0	81°2	hours. 6°0	ins. 749	
2	29°996	°014	°064	29°998	29°956	°944	29°963	30°027	°031	72°5	87°0	—	69°0	81°1	7°0	°801	
3	30°026	°044	°053	30°057	30°011	29°985	30°015	°048	°059	73°5	87°0	—	72°0	80°6	3°5	°733	
4	29°999	30°041	°056	°026	°000	30°005	29°998	°028	°039	71°0	85°0	—	71°0	79°7	0°0	°804	
5	°987	29°984	°023	°031	30°006	29°988	°994	°004	°017	72°0	82°0	—	70°5	80°7	0°1	°769	
6	29°986	29°983	°026	°023	29°991	29°995	29°995	°045	°061	74°0	85°0	—	72°5	80°7	1°2	°812	
7	30°065	30°052	°063	°046	30°024	30°035	30°022	30°065	°063	76°0	85°0	—	73°0	80°9	3°0	°774	
8	°035	°046	°048	°028	°012	30°022	30°016	29°994	30°001	69°0	83°5	—	69°0	80°0	2°0	°785	
9	30°011	°014	30°015	30°010	30°002	29°975	29°997	29°967	29°957	71°0	84°0	—	68°0	80°0	0°0	°829	
10	29°988	°001	29°976	29°978	29°997	29°984	29°984	30°007	30°030	70°0	85°0	—	70°0	78°9	0°0	°840	
11	30°057	°058	30°060	29°981	°977	30°006	30°006	°072	°072	73°0	89°0	—	72°0	80°1	0°0	°751	
12	°070	°067	°062	30°043	°998	29°988	30°016	30°041	°045	72°0	91°0	—	71°0	81°1	12°0	°749	
13	30°044	°039	°028	30°006	°967	°970	29°990	29°989	30°003	73°0	91°0	—	70°0	82°2	7°0	°774	
14	29°975	°001	°020	29°991	29°964	29°964	29°985	29°971	29°956	70°0	87°0	—	68°0	81°6	7°5	°759	
15	30°023	°018	°019	30°036	30°033	30°019	30°026	30°028	30°037	73°0	85°0	—	70°0	81°1	5°5	°829	
16	°052	°079	°080	°070	°060	°036	°037	°070	°065	71°5	85°5	—	70°0	80°5	5°0	°774	
17	°083	°099	°092	°088	°030	°040	°057	°077	°089	74°5	87°5	—	72°0	81°1	4°0	°807	
18	°071	°107	°102	°102	°090	°095	°086	°088	°085	70°5	85°0	—	71°5	80°9	5°0	°774	
19	°079	°089	°104	°091	°086	°054	°062	°095	°086	71°8	90°0	—	70°5	81°1	6°0	°741	
20	°113	°103	°108	°078	°041	°016	°015	°082	°087	74°5	88°0	—	70°5	81°7	9°0	°860	
21	°089	°090	°107	°091	°067	°026	°038	°078	°075	74°5	89°5	—	72°0	81°6	8°0	°823	
22	°094	°101	°112	°075	°047	°036	°049	°059	°045	74°3	89°0	—	72°5	81°7	9°5	°837	
23	°062	°083	°083	°061	°026	°010	°018	°044	°052	75°5	91°5	—	72°5	82°0	8°0	°785	
24	°096	°114	°115	°092	°066	°047	°063	°090	°101	74°8	90°0	—	72°0	82°2	8°5	°668	
25	°131	°151	°160	°144	°083	°084	°108	°154	°163	73°0	88°5	—	71°0	82°1	9°0	°810	
26	°144	°133	°142	°120	°079	°052	°066	°083	°079	74°0	90°0	—	71°0	82°1	7°0	°832	
27	°042	°078	°086	°081	°045	°054	°076	°118	°114	72°0	88°3	—	71°5	81°5	6°0	°761	
28	°103	°128	°125	°116	°073	°063	°060	°110	°112	72°5	88°0	—	72°5	81°8	7°0	°807	
29	°087	°123	°120	°112	°060	°035	°054	°116	°105	72°0	87°8	—	71°0	81°9	6°0	°796	
30	30°115	30°129	30°147	30°129	30°088	30°061	30°082	30°117	30°109	74°5	87°5	—	73°5	81°6	8°0	°871	
Mean	30°054	30°067	30°076	30°058	30°027	30°020	30°028	30°055	30°059	72°7	87°4	—	71°0	81°1	10°4	°790	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	74°0	72°0	81°6	76°4	85°0	77°0	87°0	77°0	82°0	76°5	77°0	74°0	76°0	73°5	76°0	73°0	75°0	73°0
2	75°5	72°5	79°0	77°0	82°0	78°4	84°3	77°2	85°5	79°0	82°0	77°0	81°0	76°5	78°5	75°0	78°0	75°5
3	76°0	74°0	82°0	78°5	84°7	77°5	76°0	72°5	74°8	72°0	76°0	74°0	75°5	73°8	76°0	74°0	76°0	74°5
4	75°0	73°0	78°4	74°0	83°5	79°0	84°6	77°4	84°0	78°0	73°5	78°0	75°0	73°5	75°0	73°5	74°5	73°5
5	76°0	74°0	78°0	76°5	80°0	76°4	79°0	74°5	77°0	72°5	77°0	73°5	77°0	73°5	74°6	75°0	74°0	74°0
6	77°0	75°0	80°5	76°5	83°0	78°0	83°0	77°0	84°0	77°0	82°0	76°0	80°6	75°0	80°0	75°0	78°5	76°0
7	77°0	74°0	81°0	75°0	82°0	75°0	83°0	76°2	83°5	77°0	82°0	76°0	80°6	73°5	78°0	72°0	77°0	73°0
8	75°0	73°0	79°0	75°0	81°8	75°0	82°0	76°0	81°8	75°0	74°0	72°0	80°6	73°5	73°0	71°8	72°0	71°0
9	74°0	73°0	77°0	75°0	81°5	76°5	82°0	77°0	78°0	75°0	75°0	73°0	73°0	70°0	73°5	71°0	73°0	71°5
10	75°5	74°0	78°0	76°0	83°0	79°0	84°0	78°0	77°0	74°5	76°0	74°0	78°0	75°0	77°0	73°5	76°0	74°0
11	76°0	73°5	78°0	74°0	81°5	76°0	84°0	76°0	77°2	72°2	80°5	74°5	80°0	73°0	76°0	72°0	75°0	73°5
12	76°0	74°0	79°5	76°0	84°5	78°0	87°0	77°0	88°0	79°0	84°0	76°0	79°0	73°0	79°2	74°4	71°0	75°5
13	77°0	74°0	80°0	75°0	84°0	74°0	88°0	78°0	89°0	79°0	84°0	76°0	76°0	72°5	77°0	74°0	70°0	74°5
14	74°0	72°0	78°0	74°0	82°5	76°5	83°5	76°0	84°5	76°0	77°0	74°5	77°0	75°0	77°0	73°5	70°0	73°5
15	77°0	75°0	80°4	76°0	84°0	76°5	81°0	76°6	76°0	73°5	78°0	73°5	77°0	73°0	75°0	72°5	74°0	72°5
16	73°5	74°0	79°5	76°0	82°5	76°0	81°3	75°5	79°2	74°5	81°0	76°0	79°0	74°7	78°2	73°5	77°0	75°0
17	76°0	74°8	80°0	76°0	82°5	76°5	84°7	77°5	84°0	78°0	84°7	77°8	82°5	76°0	79°5	73°0	78°0	74°5
18	76°3	74°5	79°0	76°5	82°3	77°5	82°7	76°0	81°0	73°5	76°5	74°5	73°0	70°2	73°0	70°2	72°5	71°0
19	77°0	74°5	80°0	76°0	83°0	77°0	86°0	76°5	81°5	77°0	84°0	77°8	84°0	77°8	82°7	76°0	81°0	77°5
20	77°0	75°0	80°3	77°0	82°0	76°0	85°0	78°8	85°5	76°5	82°0	77°0	82°5	76°5	79°0	75°0	78°0	75°0
21	76°3	73°8	83°0	78°5	84°0	78°0	85°0	78°0	87°5	78°5	82°0	76°0	83°0	78°0	80°0	75°0	79°0	76°5
22	77°5	74°5	80°5	77°0	83°5	77°5	85°5	78°5	85°0	77°0	82°5	74°5	80°0	74°0	79°0	73°0	78°0	74°5
23	78°5	75°0	80°0	78°5	84°0	77°5	86°0	77°5	89°7	77°0	85°5	77°0	82°0	73°5	80°0	75°0	79°0	76°0
24	78°0	76°0	81°7	76°5	84°0	77°0	87°0	75°0	77°0	73°5	84°0	76°5	80°5	75°0	79°0	74°5	78°0	75°0
25	75°0	72°5	78°8	76°0	83°0	77°0	84°5	77°5	86°0	77°0	85°3	78°0	83°5	75°0	80°0	74°5	78°5	75°0
26	77°0	73°5	80°0	76°0	85°0	78°8	84°5	78°0	87°0	76°5	86°5	78°0	81°5	75°5	80°5	76°5	79°5	76°0
27	78°5	74°0	80°0	76°0	83°0	76°0	81°8	76°5	86°0	78°5	85°5	79°0	83°0	76°5	80°5	75°0	79°5	76°0
28	79°0	74°5	83°0	77°0	84°0	77°0	84°7	77°5	84°8	75°5	81°0	74°5	82°0	75°5	80°5	74°8	79°5	75°0
29	75°5	73°0	77°0	74°8	81°0	76°8	84°0	77°0	85°0	78°0	82°5	75°5	82°0	75°5	77°5	74°5	76°0	74°5
30	78°0	76°0	80°0	77°0	84°0	78°5	85°0	79°0	84°5	79°0	83°2	75°5	80°0	74°8	79°0	74°5	75°0	75°5
Mean	76°3	73°8	79°8	76°4	83°0	77°0	84°0	76°8	82°9	76°2	80°9	75°5	79°2	74°5	77°9	73°8	76°9	74°4

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

JUNE 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	Cir.	3	SW	0.5	—	—	—	—	—	—	—	—	Cum.-s.	5	E	1	C.N.	10	E	1	—	10	—	—
2	Cir.-s.	0.5	WbyN	1	Cir.-s.	3	W	1	—	—	—	—	C.N.	8	E	2	C.N.	6	ESE	2	C.N.	7	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	3	C.N.	10	E	2	Nim.	10	—	—
4	Cir.-c.	—	N	0.3	—	—	—	—	—	—	—	—	C.N.	8	SE	1	Nim.	10	ESE	2	Nim.	10	—	—
5	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	E	1	Nim.	10	E	2	—	10	—	—
6	—	—	—	—	Cir.-c.	1	SW	0.5	—	—	—	—	C.N.	10	SE	2	C.N.	8	SE	2	—	10	—	—
7	Cir.-s.	2	SW	0.3	Cir.-s.	3	SW	0.3	—	—	—	—	Cum.	7	SE	2	C.N.	7	EbyS	2	Cum.	8	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	SE	3	C.N.	10	E	3	—	10	—	—
9	Cir.-c.	2	S	0.3	—	—	—	—	—	—	—	—	Cum.-s.	7	SE	1	Nim.	10	E	3	—	10	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	E	2	Nim.	10	E	2	Nim.	10	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	10	E	2	C.N.	10	ESE	2	—	10	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	SE	3	Cum.	5	SE	2	Cum.	6	S	1
13	—	—	—	—	Cir.-s.	3	SW	0.5	—	—	—	—	Cum.-s.	4	S	2	Cum.	6	S	2	Cum.	4	—	—
14	Cir.-s.	3	SW	1	—	—	—	—	—	—	—	—	Cum.	5	E	1	C.N.	10	S	1	Cum.	4	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	SE	2	C.N.	10	S	2	—	10	—	—
16	—	—	—	—	Cir.-s.	1	NNW	0.5	—	—	—	—	C.S.N.	10	SE	2	C.N.	8	E	1	Nim.	10	—	—
17	Cir.-c.	2	N	0.5	—	—	—	—	—	—	—	—	C.S.N.	7	N	1	C.N.	10	E	1	C.N.	8	E	1
18	Cir.-c.	2	E	0.3	Cir.	1	ESE	0.3	—	—	—	—	C.S.N.	7	SE	1	C.N.	6	E	1	—	10	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	8	SE	2	C.N.	10	SE	1	Cum.	7	ESE	1
20	Cir.-c.	4	W	0.3	Cir.-s.	2	WSW	0.3	—	—	—	—	Cum.	2	SE	1	Cum.	4	ESE	2	Cum.	6	E	2
21	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	SE	1	C.N.	7	E	2	Cum.	7	—	—
22	Cir.	1	SW	0.3	—	—	—	—	—	—	—	—	Cum.	6	S	2	C.S.N.	7	SE	1	—	8	—	—
23	Cir.-s.	2	SE	0.3	—	—	—	—	—	—	—	—	Cum.	7	SE	1	Cum.-s.	5	SE	1	Cum.	7	E	1
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	S	1	C.N.	8	SE	2	Cum.	7	SE	1
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	ESE	2	Cum.-s.	5	ESE	1	Cum.	6	E	1
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	E	1	Cum.	7	E	1	C.N.	10	—	—
27	—	—	—	—	Cir.	2	E	0.3	—	—	—	—	C.N.	10	E	2	C.N.	6	SE	2	—	7	—	—
28	—	—	—	—	Cir.	2	NE	0.3	—	—	—	—	C.N.	7	E	2	C.N.	7	ESE	2	Cum.	6	E	1
29	Cir.	2	N	0.3	Cir.	1	NNW	0.3	—	—	—	—	Cum.-s.	6	E	1	Cum.	7	E	1	Cum.	7	—	—
30	—	—	—	—	Cir.	2	N	0.3	—	—	—	—	C.N.	9	SE	1	Cum.-s.	7	ESE	1	Cum.	7	E	1
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	7.3	—	1.6	—	7.9	—	1.7	—	8.1	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	E 2	ENE 1	E 1	Calm 0	—	—	Four different ● showers on S. side of the Bay, noon. ☼ passing to W., ● ² [0.25p.—6p.
2	Calm 0	E 2	E 3	E 1	Calm 0	—	*95	☼ ⁰ a. Overcast day. Threatening appearance in S. 2.30p. ☼ ² in W. from 3p.
3	W 1	NEbyE 1	NE 1	Calm 0	Calm 0	—	—	Dark in SE. 9a. ● ^{10a.} ☼ ² in W., passing SE. to NW. 10.15a.—11.15a. ● ^{p.}
4	Calm 0	E 1	E 2	Calm 0	Calm 0	—	*50	☼ ² noon. Squally ☼ ^{10a.} , with distant ☼ ² 2p.—2.15p. ● from 4p. Very dark 10p.
5	Calm 0	E 1	ESE 1	E 1	Calm 0	—	1'28	☼ ⁰ on hills, with ● all day.
6	W 1	E 3	E 3	E 1	ESE 1	59'5	—	☼ ⁰ (mist) a. Clouds low. ☼ ² 2p. then dull.
7	SE 1	E 3	E 3	ENE 1	Calm 0	157'5	—	Day overcast and ugly, with ☼. Dark and threatening in S. and SW.
8	W 1	E 1	ESE 3	E 1	Calm 0	140	—	☼ ⁰ over swamp 6a. Fine, with ☼ ^{10a.} Overcast from noon. ● from 4p.
9	Calm 0	E 1	SW 2	S 1	Calm 0	86	1'20	☼ ⁰ on swamp 6a. Day dull, with ☼ ⁰ (mist) ●. ● ² from SW., ☼ ² 2p.
10	Calm 0	E 2	Calm 0	Calm 0	Calm 0	76	1'50	Day dull and overcast, with ☼ ⁰ (mist) on hills and ●. Ugly in S. at noon.
11	Calm 0	E 1	E 2	ESE 1	Calm 0	100	*40	☼ ⁰ (mist) 6a. Fine 10a. Dull, with ☼, noon. ● 2p. Ugly 4p.
12	Calm 0	E 1	E 3	ESE 1	Calm 0	71	—	☼ ⁰ (mist) on hills ☼ ² 6a. Fine day, with ☼. Threatening in S. 4p.
13	Calm 0	Calm 0	ENE 1	Calm 0	Calm 0	91	—	☼ ⁰ (mist) 6a. ☼ ⁰ 8a. Very fine, noon. ☼ (one peal) 2p. ● ² ☼ in S. 4p.
14	W 1	SE 1	ENE 1	Calm 0	Calm 0	66	—	☼ ⁰ (mist) on hills 6a. Overcast 2p. with ☼ passing S. to N. ● ² to Wd.
15	Calm 0	E 2	ENE 1	E 2	Calm 0	76	—	☼ ⁰ (mist) on hills a. ☼ ² noon—1.30p., passing overhead from S.
16	Calm 0	ESE 2	EbyN 2	ENE 2	Calm 0	73'5	*73	Dull most of day, with ☼ ⁰ (mist) on hills, and ☼. ☼ ² in S. noon. ● ⁰ 2p.
17	Calm 0	EbyS 2	E 3	E 4	E 2	101	—	Overcast most of day, with ☼. ● showers in S.
18	Calm 0	E 2	E 2	NE 1	Calm 0	104	—	☼ ⁰ (mist) on hills a. ☼ ² overhead, at long intervals, 4p.—6p.
19	Calm 0	E 1	E 1	EbyN 1	Calm 0	101	*26	☼ ⁰ (mist) a. Very fine, with ☼, 10a. ☼ low, and infrequent, 2p.—3p. ● ² 2p.
20	Calm 0	E 2	E 3	E 4	E 3	127'5	*21	☼ ⁰ on swamp 6a. Very fine day, with ☼ till 2p.
21	Calm 0	E 2	E 5	E 1	Calm 0	176'5	—	Fine a., with ● showers in S. ● ² in S. 2p. ☼ in SW. 8p.
22	Calm 0	EbyN 1	EbyN 3	EbyS 1	Calm 0	102'5	—	Fine all day. Low, distant ☼ ² in S. 2p.
23	Calm 0	E 1	ESE 1	EbyN 1	Calm 0	126'5	—	Very dull 6a. ☼ ⁰ 8a. Fine from 10a. ☼ ² in S. from 8p.
24	Calm 0	Calm 0	NE 1	Calm 0	Calm 0	100	—	☼ ⁰ (mist) on hills and swamp 6a. ● ² 1p.—2p. Very fine later p.
25	Calm 0	E 1	E 3	E 1	E 1	76	*66	Fine and clear all day.
26	W 1	SE 1	NE 2	NE 4	NE 1	152'5	—	Very squally p. ☼ ² in SW. 4.30p. ☼ ² in S. 8p. ☼ ² ● ² 9p.—midt.
27	NE 2	Calm 0	E 3	E 2	E 1	202	1'15	Overcast and ugly most of day. ● showers in S. p.
28	NE 1	EbyS 2	E 1	NE 1	NE 1	177	—	☼ in S. 6a. Day very fine, with ☼. ● shower in N. 2p., in S. later p.
29	Calm 0	Calm 0	E 4	NE 1	Calm 0	100'5	—	☼ ⁰ on swamp 6a. Distant ☼ ² ● ² in S. 8p. ☼ ² in S. 10p.
30	Calm 0	E 1	E 3	EbyN 1	E 1	152'5	*93	☼ ⁰ on swamp 6a. Fine for the most part, with ☼ ● showers.
Mean	0'3	1'3	2'1	1'2	0'4	—	9'77	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

JULY 1886.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Noon.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.				
	rs.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	°	°	°	°		hours.	ins.	
1	30°08.3	30°100	30°135	30°130	30°086	30°058	30°085	30°114	30°121	74°5	88°8	—	72°5	81°9	8°0	863	
2	149	151	164	144	113	095	094	112	134	72°0	90°0	—	72°8	82°4	10°0	812	
3	127	130	142	126	100	092	117	127	141	75°0	88°8	—	70°0	82°1	10°0	736	
4	110	121	130	136	104	090	101	120	145	70°5	87°5	—	69°0	81°7	11°0	751	
5	093	092	103	084	048	034	037	037	051	69°8	89°0	—	69°0	81°9	12°0	751	
6	045	049	054	038	018	007	009	025	047	70°8	87°5	—	70°0	81°9	11°0	846	
7	067	093	129	059	038	024	051	083	085	73°0	84°5	—	70°0	81°2	7°0	733	
8	089	113	118	104	081	081	070	107	109	73°0	85°0	—	71°5	80°8	6°0	834	
9	126	151	155	124	104	070	118	133	141	70°5	89°0	—	70°0	81°2	10°0	785	
10	135	159	146	130	106	073	096	132	134	72°5	88°6	—	70°5	81°1	9°0	874	
11	104	126	140	112	30°057	044	072	070	069	73°5	88°5	—	72°0	81°0	5°0	940	
12	032	026	046	040	29°994	000	016	029	047	75°0	86°5	—	71°5	81°5	10°0	846	
13	028	042	063	040	29°999	30°004	30°043	063	067	73°0	89°0	—	72°5	81°3	10°0	823	
14	080	073	059	052	30°000	29°991	29°997	041	043	71°5	88°0	—	71°5	81°3	10°0	918	
15	011	007	027	008	29°982	29°952	29°975	019	023	72°0	89°5	—	72°0	81°8	12°0	820	
16	035	048	048	027	30°001	30°002	30°043	073	077	75°5	90°0	—	70°5	82°1	11°0	868	
17	090	108	103	099	064	060	083	093	090	77°0	88°5	—	74°0	82°5	12°0	846	
18	086	103	113	084	050	30°062	060	077	074	75°2	88°5	—	73°0	82°1	8°5	764	
19	061	076	078	058	001	29°979	018	042	049	71°0	87°0	—	69°0	81°9	11°0	863	
20	026	047	050	036	018	30°011	028	074	071	72°0	88°0	—	71°0	82°1	10°5	865	
21	088	103	110	084	048	040	072	083	091	74°0	89°0	—	71°0	82°3	11°0	1°124	
22	132	141	128	117	092	086	128	152	151	73°5	89°0	—	72°0	82°3	12°0	1°142	
23	157	185	181	153	110	128	140	159	157	73°2	86°8	—	71°0	81°1	6°5	1°000	
24	118	137	114	081	30°074	059	071	101	099	72°5	87°5	—	71°5	80°3	4°0	848	
25	043	087	070	040	29°987	014	025	037	049	72°0	87°5	—	71°0	81°1	7°5	833	
26	034	067	053	040	30°047	049	028	081	078	72°3	88°5	—	71°0	81°3	6°5	1°184	
27	053	082	086	052	30°052	30°010	30°044	036	031	72°0	89°5	—	71°5	82°3	10°0	790	
28	014	025	022	005	29°960	29°956	29°967	009	031	73°5	88°5	—	72°0	82°6	12°0	851	
29	008	041	060	028	29°990	29°968	29°974	023	044	72°5	87°5	—	70°5	81°9	11°0	796	
30	082	070	092	059	30°058	30°054	30°049	077	079	72°0	87°5	—	70°0	81°8	10°5	790	
31	30°081	30°109	30°124	30°102	30°089	30°051	30°075	30°100	30°107	71°5	88°0	—	69°5	82°5	11°0	955	
Mean	30°075	30°092	30°099	30°076	30°048	30°037	30°052	30°078	30°085	72°8	88°1	—	71°1	81°7	206°0	871	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.	
1	77°0	74°8	81°0	76°5	84°3	78°5	84°0	78°5	86°0	79°5	85°0	79°5	84°0	78°8	81°0	77°5	79°0	77°0
2	79°0	75°0	85°0	79°0	87°0	79°0	87°0	78°5	88°5	76°0	85°0	77°0	83°0	75°5	81°5	76°0	80°0	76°5
3	76°0	72°5	82°0	76°0	82°0	76°0	85°0	76°0	83°0	76°0	85°0	76°0	77°0	76°0	77°0	74°0	76°0	74°5
4	75°0	73°0	77°0	74°8	82°0	76°0	84°0	76°0	84°0	76°0	85°0	75°0	82°0	74°0	79°0	74°5	78°4	75°0
5	72°0	70°0	77°3	75°0	83°5	77°5	84°0	76°0	85°5	75°0	84°0	74°5	81°0	74°5	78°5	74°0	77°0	74°5
6	74°0	72°0	79°0	75°5	81°5	76°5	85°0	78°5	83°0	77°0	83°0	75°5	81°0	75°5	78°0	73°5	77°5	74°0
7	75°0	73°0	75°5	74°5	74°0	72°0	78°5	73°5	81°5	75°0	81°5	75°0	81°5	75°0	78°0	74°5	78°0	75°5
8	75°0	73°0	79°0	76°0	82°5	78°5	81°8	77°0	82°0	76°0	81°0	76°0	80°5	74°5	79°5	74°5	79°0	75°0
9	74°5	73°0	79°0	75°0	84°0	78°0	86°0	77°5	85°5	77°5	83°5	77°0	81°5	74°0	77°8	74°5	77°4	75°0
10	75°0	73°0	81°0	78°5	84°0	78°0	83°5	78°5	84°5	78°5	84°5	78°0	82°0	76°5	80°0	75°5	79°0	76°5
11	76°5	74°5	76°5	74°5	77°0	74°5	81°5	79°0	86°0	77°3	82°5	78°0	81°0	76°0	80°0	75°0	79°0	76°0
12	78°0	74°5	83°0	76°5	84°0	77°5	85°0	78°5	85°0	78°0	80°5	75°5	80°3	75°0	79°0	74°5	79°0	75°5
13	76°0	74°5	78°0	76°0	83°5	77°0	85°0	76°0	86°0	79°5	82°0	76°0	81°3	76°0	79°5	75°0	79°0	76°0
14	74°8	74°0	78°0	75°0	81°0	77°0	85°0	80°0	84°0	78°0	79°0	75°5	81°0	76°0	78°0	74°0	78°0	75°5
15	74°0	72°0	80°0	77°0	84°0	78°0	82°5	77°0	85°0	78°0	85°0	77°5	85°0	75°0	79°8	74°5	78°0	75°0
16	76°0	74°0	81°5	77°0	84°0	78°5	86°5	79°5	88°0	80°5	87°0	80°0	79°5	73°0	79°5	75°5	79°0	76°5
17	79°0	76°0	81°0	77°0	83°5	77°0	85°0	78°5	86°0	79°0	84°8	79°0	83°0	77°5	83°0	76°0	82°0	77°0
18	77°0	75°0	79°8	76°0	84°0	78°0	84°5	76°5	83°0	77°5	81°0	76°0	79°0	75°0	76°0	76°0	74°0	74°0
19	72°0	70°5	77°5	74°5	82°5	77°0	85°5	79°0	85°8	83°0	85°5	83°0	79°0	78°0	79°0	76°5	78°0	76°5
20	74°0	73°0	81°0	78°0	83°8	78°8	86°0	79°3	85°0	82°5	82°3	78°5	82°0	79°0	79°0	77°0	78°0	77°5
21	75°0	74°0	80°0	78°0	84°0	80°0	87°0	84°5	87°5	76°0	87°0	81°8	83°5	79°0	80°5	76°5	79°5	77°0
22	78°5	74°5	84°0	79°0	85°0	83°5	85°0	84°0	85°8	84°5	85°0	84°0	81°0	80°0	80°0	76°0	79°5	76°0
23	76°0	74°5	80°0	79°0	81°0	79°0	81°0	80°0	84°2	79°0	80°0	79°0	76°0	75°5	77°5	76°0	77°0	76°0
24	74°5	73°0	77°0	75°0	82°0	78°8	84°0	78°2	80°3	77°0	79°0	76°5	76°0	74°0	74°5	72°5	74°0	72°0
25	72°5	72°0	78°5	76°0	84°5	79°5	85°5	79°0	86°0	84°0	80°0	77°0	78°5	77°0	78°5	76°0	78°0	76°5
26	74°5	73°0	80°5	77°0	83°0	78°0	87°0	85°5	81°0	79°8	78°0	76°5	77°0	75°5	78°0	75°5	77°0	75°5
27	75°0	73°8	79°5	77°0	84°5	79°0	87°0	78°0	86°5	76°0	84°5	73°0	81°5	75°5	79°5	75°0	78°0	76°5
28	75°0	74°0	78°5	76°5	84°0	78°5	85°5	78°8	86°0	79°0	84°8	79°5	79°0	74°0	78°0	74°5	77°5	75°0
29	74°5	73°0	80°0	77°0	84°0	77°5	84°0	77°0	82°5	77°0	84°0	77°0	80°0	74°0	79°0	74°5	78°0	75°5
30	74°0	72°5	80°5	76°0	85°0	78°0	86°0	80°0	82°0	75°0	82°0	76°0	79°0	76°5	77°5	74°5	77°0	75°5
31	73°0	71°8	81°0	78°0	85°0	79°0	87°0	84°5	86°0	84°0	86°5	84°0	83°0	84°8	79°5	78°0	79°0	78°0
Mean	75°2	73°3	79°7	76°5	83°0	77°9	84°7	78°8	84°6	79°4	83°2	77°6	80°4	76°0	78°9	75°4	78°1	75°7

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

JULY 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	Cir.	2	SE	0'3	—	—	—	—	C.N.	9	E	1	Cum.	6	SE	2	Cum.	4	ESE	1
2	Cir.-c.	3	SSW	0'5	—	—	—	—	—	—	—	—	Cum.	4	E	1	Cum.	7	SE	2	Cum.	7	E	1
3	—	—	—	—	Cir.-s.	3	S	0'5	—	—	—	—	Cum.	5	E	1	Cum.	5	E	1	Nim.	10	—	—
4	Cir.-s.	3	W	0'3	Cir.-s.	2	SW	0'3	—	—	—	—	Cum.	5	ESE	2	Cum.	5	E	1	Cum.	6	E	2
5	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	1	C.N.	8	E	1	Cum.	8	NE	1
6	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	NE	1	C.N.	10	E	1	Cum.-s.	7	E	1
7	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	1	C.S.N.	10	E	1	Nim.	10	—	—
8	Cir.	3	NNW	0'3	—	—	—	—	—	—	—	—	Cum.	4	E	1	C.N.	9	E	1	Cum.	7	E	1
9	Cir.-s.	4	NNW	0'3	Cir.	2	NW	0'3	—	—	—	—	Cum.	3	E	1	C.N.	6	E	1	C.N.	10	E	2
10	Cir.-s.	3	N	0'3	—	—	—	—	—	—	—	—	Cum.	5	ESE	4	C.N.	9	E	1	Cum.	6	E	1
11	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	NE	2	C.N.	9	E	2	—	0	—	0
12	Cir.	3	SW	0'5	Cir.-s.	3	SW	0'5	—	—	—	—	Cum.	4	E	1	Cum.	5	E	1	Cum.	7	E	1
13	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	1	Cum.	5	E	2	Cum.	6	E	1
14	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	7	E	1	C.N.	7	E	2	Cum.	6	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	2	Cum.	8	E	1	Cum.	7	E	1
16	—	—	—	—	Cir.-s.	1	N	0'3	—	—	—	—	C.S.N.	5	E	2	Cum.	7	ESE	1	Cum.	6	E	1
17	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	8	SE	2	C.N.	8	SE	1	Cum.	8	ESE	2
18	Cir.-s.	3	NE	0'3	—	—	—	—	—	—	—	—	Cum.	5	ENE	1	C.N.	9	E	2	Cum.	9	E	0'5
19	Cir.-s.	3	NE	0'3	—	—	—	—	—	—	—	—	Cum.	4	SE	1	Cum.	6	E	1	—	10	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	SE	4	C.N.	7	E	1	—	10	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	1	Cum.	4	E	1	Cum.	7	—	—
22	Cir.-s.	2	S	0'3	Cir.-s.	3	S	0'3	—	—	—	—	Cum.	4	ESE	2	Cum.	4	E	2	Cum.	5	E	1
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	SE	1	C.N.	8	E	2	C.N.	8	E	1
24	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	10	SE	4	C.N.	10	E	2	C.N.	10	E	1
25	Cir.-c.	4	N	0'3	—	—	—	—	—	—	—	—	—	0	—	0	C.N.	7	SE	2	Cum.	9	—	—
26	Cir.-c.	2	W	0'3	—	—	—	—	—	—	—	—	Cum.	5	SE	1	C.N.	10	ESE	2	—	7	—	—
27	Cir.-c.	3	N	0'5	—	—	—	—	—	—	—	—	Cum.	4	ESE	1	C.N.	4	E	1	Cum.	8	E	1
28	—	—	—	—	Cir.	2	NE	0'3	—	—	—	—	C.N.	6	ESE	2	Cum.	6	E	2	Cum.	6	ESE	1
29	Cir.-s.	2	W	0'3	—	—	—	—	—	—	—	—	Cum.	3	SE	2	C.N.	9	E	1	Cum.	4	E	1
30	Cir.-c.	3	NE	0'3	Cir.-s.	2	N	0'5	—	—	—	—	Cum.	2	E	1	Cum.	5	E	1	C.N.	9	E	1
31	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	1	Cum.	6	E	1	Cum.	6	E	1
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	5'4	—	1'5	—	7'1	—	1'4	—	7'2	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	E 3	E 4	EbyS 2	Calm 0	152	.27	Fine most of day, with ∞^2 . ● showers a. $\angle$ in W. 8p.
2	Calm 0	E 1	EbyN 1	NE 1	Calm 0	126	—	$\angle$ n. Fine all day, with ∞
3	Calm 0	NE 1	ENE 1	NE 1	Calm 0	126'5	—	Fine, with ∞ noon—4p. ● T^2 (6 peals) 5p. $\angle^2$ in S. 8p.
4	W 1	Calm 0	E 3	NE 1	Calm 0	101'5	.62	Earthquake 3p., lasting 11 seconds. There were 3 shocks passing NE.—SW.
5	Calm 0	Calm 0	NE 1	NE 1	Calm 0	76	—	∞^0 (mist) on swamp 6a. Fine a.
6	W 1	SE 1	EbyN 3	EbyN 1	Calm 0	101	—	Ugly 6a. Fine and clear 8a. Overcast, with ●, 10a.—4p., then fine.
7	Calm 0	Calm 0	Calm 0	EbyN 2	Calm 0	76	.30	Overcast and very dull. ● till 8a. and from 8p.
8	Calm 0	E 2	EbyN 2	Calm 0	Calm 0	100	—	Overcast and very dull for the most part.
9	Calm 0	SE 1	E 3	NE 1	E 2	101'5	—	$\angle$ n. ∞^0 (mist) 6a. $\angle$ in W. 8p. ● R passing W. 10p.—11p.
10	Calm 0	E 2	E 1	E 1	Calm 0	76'5	.45	∞^0 (mist) on swamp 6a. Very fine 10a. ● early p. Fine later p.
11	WbyS 1	SE 1	EbyN 1	Calm 0	Calm 0	126	.27	∞^0 (mist) on hills 6a. Dull all day. Ugly in S. at noon.
12	Calm 0	E 2	E 4	Calm 0	Calm 0	127	—	● showers to S., ∞^2 6a. Fine, with ∞ , for the most part.
13	Calm 0	EbyN 2	E 3	E 2	Calm 0	126	1.80	∞^0 (mist) on swamp and hills 6a. ● showers till 10a., then fine. ∞ at noon.
14	Calm 0	Calm 0	E 2	E 1	Calm 0	126'5	—	Overcast most of day. Occasional ● showers. ∞ 6p.
15	Calm 0	E 1	EbyN 1	Calm 0	Calm 0	76'5	.30	$\angle$ n. Dull most of day, with ∞ .
16	Calm 0	E 1	E 1	E 1	SE 1	126'5	—	● shower in NE. 6a. Fine all day, with ∞ at times.
17	SE 1	E 1	E 1	Calm 0	Calm 0	177'5	—	∞^0 (mist) on hills 6a. Distant T in W. 2p. ● in S. 4p. R in SW. 8p.
18	NbyE 1	E 1	E 1	Calm 0	Calm 0	151	—	∞^0 (mist) on hills 6a. ∞^2 8a. ● showers in S. 2p.
19	Calm 0	E 1	E 2	Calm 0	Calm 0	76	—	$\angle$ n. Squally, with ● 6p. A small whirlwind crossing the upper end of the Bay, lifting the water 40 feet high.
20	Calm 0	E 1	E 3	EbyN 1	Calm 0	123'5	.45	∞^0 (mist) on N. hills 6a. Fine a. ● 4p., distant T in SW. T in W. 6p. ● ⁰ 8p.
21	Calm 0	E 2	E 3	E 2	Calm 0	130'5	.27	Dull, with ∞^2 and ∞^0 (mist) on hills, a. Fine from 10a. ∞^2 6p.
22	Calm 0	E 2	E 3	EbyN 1	Calm 0	156	—	Fine all day, with ∞ .
23	Calm 0	E 1	E 3	Calm 0	Calm 0	157	—	Dull, with ∞ , 6a. Fine 8a. ● p. T in S. 2p. $\angle$ in WSW. 8p.
24	Calm 0	Calm 0	E 1	Calm 0	Calm 0	91	.80	Very dull all day. ∞^0 (mist) on hills. Distant T 2p. ● ² T 8p.
25	Calm 0	SE 1	E 4	Calm 0	Calm 0	101	.25	∞^0 on swamp 6a. ● T in S. 2p. ● R in S. 4p. $\angle$ in S. 8p.
26	Calm 0	E 1	ESE 1	Calm 0	Calm 0	76	—	∞^0 (mist) on hills 6a. ● ² in S. 2p. R 2p.—3p., then overcast.
27	Calm 0	E 1	E 1	E 1	Calm 0	75'5	—	∞^0 (mist) 6a. Very fine and clear 8a. ● T in S. 2p. Fine p.
28	Calm 0	E 1	E 2	E 1	Calm 0	127'5	—	● showers 6a. and 8a., then very fine. ● T in S. 4p.
29	Calm 0	E 1	EbyN 1	E 1	Calm 0	101	—	Fine a. Dull and overcast 2p., with T in SW., then fine again.
30	Calm 0	E 1	E 1	Calm 0	Calm 0	101	—	$\angle$ n. Fine and clear a. ● showers in S. p.
31	W 1	E 1	EbyS 3	Calm 0	Calm 0	75'5	—	∞ 6a. Day fine and clear.
Mean	0'2	1'1	2'0	0'7	0'1	111'8	5'78	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

AUGUST 1886.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fah. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.						hours.	ins.	
1	30.086	30.101	30.106	30.079	30.047	30.042	30.064	30.090	30.109	71.5	89.0	—	70.0	81.7	9.0	1.117	
2	078	088	112	074	024	035	091	085	093	72.0	88.5	—	71.2	81.5	7.0	1.161	
3	067	079	077	059	031	016	016	043	055	69.5	89.0	—	68.8	80.7	8.5	0.943	
4	023	051	078	084	072	072	067	097	111	73.0	85.0	—	72.0	80.2	7.0	0.984	
5	085	095	098	070	034	044	073	102	064	71.5	87.5	—	70.0	80.8	9.0	0.744	
6	080	086	082	054	012	008	020	028	047	71.5	87.5	—	70.0	81.1	10.0	0.894	
7	063	057	054	019	29.956	003	031	065	069	73.0	87.5	—	72.0	80.5	8.5	0.930	
8	090	099	106	095	30.049	038	065	099	082	72.0	88.0	—	71.0	81.4	10.0	0.815	
9	102	114	118	094	046	30.034	30.062	070	069	74.0	89.0	—	72.0	81.9	6.0	0.860	
10	30.038	30.058	30.071	30.080	30.012	29.991	29.991	30.028	30.043	72.0	90.0	—	70.5	82.1	6.0	1.060	
11	29.960	29.974	29.983	29.951	29.914	918	947	29.951	29.951	73.5	90.0	—	72.0	82.3	5.0	0.984	
12	051	053	055	040	030	016	067	075	073	74.0	88.0	—	72.5	81.5	4.5	0.823	
13	063	079	082	055	034	024	032	061	070	71.5	88.0	—	70.0	81.6	6.0	0.823	
14	084	093	096	075	032	017	033	079	089	75.0	85.8	—	72.5	81.0	6.0	0.807	
15	071	29.070	29.071	081	065	067	081	29.075	29.080	74.0	79.5	—	68.0	77.4	0.0	0.818	
16	29.973	30.017	30.007	29.991	066	066	087	30.013	30.022	74.0	83.0	—	72.5	78.6	0.0	0.961	
17	30.003	010	104	30.068	080	080	090	29.987	29.979	75.0	86.0	—	72.0	80.2	10.0	0.863	
18	29.944	018	010	29.942	093	054	062	077	084	73.0	87.0	—	70.0	80.5	10.5	0.868	
19	077	30.008	016	095	066	056	063	065	093	74.0	85.0	—	71.0	79.8	1.5	0.848	
20	085	29.993	30.006	078	062	041	058	073	085	73.0	89.0	138.0	71.0	80.2	7.0	0.865	
21	064	068	29.960	045	060	061	082	052	063	72.0	89.0	145.0	73.0	81.1	10.5	0.871	
22	032	29.943	29.951	030	016	011	29.939	29.969	29.985	75.0	91.0	146.0	73.0	81.3	8.0	0.792	
23	29.981	30.006	30.010	29.990	29.980	29.973	30.004	30.037	30.045	76.5	89.0	147.0	73.0	81.8	7.0	0.820	
24	30.070	094	097	30.074	30.058	30.051	063	086	087	73.0	88.0	145.0	71.0	82.1	9.5	0.874	
25	30.071	091	095	047	30.018	30.020	30.032	30.047	053	73.0	88.0	140.0	70.5	81.3	5.0	0.854	
26	29.982	047	048	012	29.970	29.950	29.968	29.990	014	71.0	92.0	146.5	69.5	82.2	9.0	0.934	
27	30.020	030	054	045	29.999	29.990	30.044	30.058	064	73.0	93.0	145.0	71.0	83.1	8.0	0.795	
28	045	072	085	058	30.013	30.037	046	066	071	73.0	92.0	147.0	72.0	83.5	8.5	0.769	
29	039	051	047	020	29.975	29.997	025	036	034	73.0	90.0	145.0	71.0	83.2	7.0	0.764	
30	048	075	070	056	30.010	30.030	055	051	049	72.0	91.0	147.5	70.0	82.8	8.5	0.701	
31	30.101	30.121	30.131	30.104	30.062	30.076	30.065	30.127	30.138	73.0	90.0	146.0	70.5	82.8	10.5	0.788	
Mean	30.016	30.034	30.042	30.019	29.981	29.984	30.002	30.022	30.028	73.0	88.2	—	71.1	81.3	223.0	0.875	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	75°0	74°0	79°0	77°0	80°0	79°0	86°0	84°0	86°0	83°5	81°0	78°0	80°0	76°5	77°5	75°0	77°0	75°0
2	74°8	73°5	78°5	76°0	82°0	80°0	85°5	84°5	83°0	82°5	82°0	80°5	77°5	77°0	77°0	76°0	77°0	76°0
3	71°5	70°5	78°0	76°0	83°8	82°5	78°8	78°0	86°5	83°5	82°5	78°0	80°0	76°0	79°5	77°5	78°0	76°5
4	77°0	76°0	80°0	78°0	81°0	79°5	83°0	80°5	75°0	73°5	74°0	72°5	75°2	74°0	74°5	73°5	74°0	72°5
5	74°0	73°0	75°5	74°5	80°0	74°0	84°5	76°0	86°0	78°0	84°0	77°5	81°5	76°0	80°0	77°8	78°0	76°4
6	73°5	72°5	79°8	76°0	83°8	78°0	85°0	79°5	85°5	77°0	84°5	77°5	81°0	76°0	79°0	76°5	78°0	76°0
7	75°5	74°5	78°8	77°0	82°0	80°0	84°5	80°0	83°5	80°0	80°0	77°0	78°0	75°0	77°5	75°0	77°0	75°0
8	74°5	73°5	78°5	74°0	82°5	76°0	85°5	78°0	86°0	78°0	83°5	76°8	82°5	76°5	80°0	76°5	78°0	76°0
9	78°0	75°0	82°0	77°5	85°0	76°0	80°5	77°0	86°0	79°0	84°5	78°0	78°5	77°0	79°5	76°0	79°0	77°0
10	75°0	74°0	81°0	78°5	82°5	81°5	86°0	83°0	83°0	80°5	82°5	80°5	82°0	81°0	80°0	78°0	79°0	77°5
11	76°0	75°0	82°0	80°0	83°0	81°0	83°0	80°5	82°0	78°0	77°5	74°0	78°0	77°0	80°0	78°0	79°0	77°5
12	75°5	75°0	79°8	78°0	82°5	80°0	85°0	78°0	85°0	79°6	82°0	80°0	77°2	74°5	76°5	74°5	75°0	73°5
13	74°5	73°0	78°5	76°0	84°0	80°5	85°0	78°0	82°0	78°0	81°5	77°5	79°5	76°0	78°0	75°0	77°4	75°0
14	77°5	76°0	80°0	78°0	78°5	74°0	82°0	76°5	85°8	80°8	82°5	75°0	78°0	72°0	75°5	71°8	75°0	72°6
15	76°0	75°8	76°4	73°8	75°0	74°4	75°0	74°0	74°0	73°0	74°8	73°0	75°5	74°0	76°8	75°0	76°4	75°0
16	75°2	74°5	80°0	78°0	79°2	77°5	79°8	78°8	81°8	78°8	83°0	79°5	80°0	77°0	78°5	76°5	77°6	76°0
17	76°8	75°0	85°5	79°5	83°0	78°5	84°0	78°5	84°0	78°0	83°4	78°0	81°0	77°0	78°5	76°5	78°0	76°0
18	73°8	73°0	83°0	78°0	84°0	78°0	85°3	79°0	85°2	78°0	83°5	78°0	80°0	76°0	75°0	74°0	77°0	74°5
19	75°2	74°5	78°0	77°0	80°2	78°0	81°0	77°0	83°0	78°0	81°0	77°0	78°0	76°0	76°0	75°0	76°0	74°0
20	75°0	74°0	77°3	76°0	83°0	79°0	88°0	80°0	88°5	79°9	83°0	78°4	80°8	77°0	78°4	76°8	77°6	75°0
21	78°0	76°0	84°8	79°2	86°5	79°5	85°0	79°0	82°4	78°2	81°2	77°8	77°5	74°8	75°2	74°8	75°8	74°6
22	76°5	75°0	80°0	77°0	83°5	76°4	89°0	78°5	86°8	78°8	84°0	77°8	82°0	77°0	81°8	77°0	81°0	78°0
23	79°0	77°8	81°0	78°0	85°0	79°0	86°5	78°5	87°0	80°0	83°4	79°6	83°0	77°5	81°0	77°5	79°5	77°0
24	77°0	76°0	83°0	79°0	85°8	80°0	86°3	79°5	85°0	79°8	86°8	78°0	80°0	75°8	79°0	76°8	78°5	76°0
25	75°3	74°5	81°5	77°5	77°5	76°0	74°7	74°5	83°0	78°8	81°5	77°8	78°2	77°0	77°8	75°0	77°0	75°0
26	73°5	73°0	78°2	76°5	85°0	79°0	85°3	81°5	87°5	78°0	84°0	73°5	80°5	76°0	78°5	76°0	78°0	76°0
27	75°0	74°0	80°5	78°0	87°5	80°2	89°5	79°0	87°0	79°8	85°5	77°2	77°5	77°0	79°8	77°5	79°0	77°5
28	75°8	75°2	82°2	79°5	85°5	77°8	90°0	78°6	88°0	80°4	80°8	76°8	79°0	76°0	78°0	76°0	77°0	75°5
29	75°0	74°0		79°0	83°0	79°8	87°4	77°5	87°0	77°5	82°0	76°7	79°0	74°8	79°0	75°2	78°0	76°0
30	73°8	72°8	78°2	76°2	84°5	78°8	85°8	75°4	89°2	78°0	79°5	72°5	78°0	75°0	76°0	73°0	75°0	73°5
31	75°2	74°0	81°5	78°5	85°5	78°0	87°3	78°0	82°0	76°5	82°5	75°2	82°0	75°0	78°0	73°2	77°0	74°0
Mean	75°4	74°2	80°2	77°2	82°8	78°4	84°5	78°7	84°4	78°9	82°0	77°4	79°4	76°0	78°3	75°5	77°4	75°5

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

AUGUST 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	Cir.	2	W	0.5	—	—	—	—	—	—	—	—	Cum.	4	E	1	C.N.	8	E	2	Nim.	10	E	1
2	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	1	C.N.	8	E	1	—	10	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	6	E	2	C.N.	10	E	2	Nim.	10	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	2	C.N.	10	E	2	C.N.	7	—	—
5	Cir.	3	NW	0.5	Cir.	1	NW	0.5	—	—	—	—	Cum.	5	E	1	Cum.	5	E	2	C.N.	9	—	—
6	—	—	—	—	Cir.	2	SW	0.3	—	—	—	—	Cum.	7	E	1	Cum.	4	E	2	Cum.	6	E	1
7	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	NE	2	Cum.	8	E	2	C.N.	10	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	1	Cum.	6	E	2	Cum.	8	E	1
9	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	ESE	4	C.N.	7	ENE	3	Cum.	6	E	1
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	SE	2	C.N.	7	E	2	Cum.	8	E	1
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	NE	4	C.N.	9	E	2	—	10	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	9	E	2	C.N.	8	E	2	C.N.	9	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	2	C.N.	8	E	1	Cum.	3	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	2	C.N.	10	ENE	2	C.N.	8	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	EbyS	7	Nim.	10	E	6	Nim.	10	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	E	3	C.N.	10	SE	2	C.N.	10	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	2	Cum.	6	E	2	Cum.	4	—	—
18	Cir.	3	NW	0.5	Cir.-s.	4	WbyS	1	—	—	—	—	Cum.	4	E	2	Cum.	5	E	2	Nim.	10	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	2	C.N.	10	ESE	1	—	10	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	SE	3	C.N.	9	E	1	—	10	—	—
21	Cir.-c.	2	SW	0.3	Cir.-s.	1	WSW	0.3	—	—	—	—	Cum.-s.	2	EbyS	5	C.N.	8	E	2	Cum.	4	ESE	1
22	Cir.-s.	3	SW	0.5	Cir.-s.	2	SW	0.5	—	—	—	—	Cum.-s.	4	SE	6	Cum.	7	ESE	2	C.N.	5	—	—
23	Cir.-s.	3	NE	0.3	Cir.-c.	3	ENE	0.5	—	—	—	—	C.N.	6	ESE	4	C.N.	5	SE	3	—	5	—	—
24	Cir.-s.	1	WNW	0.5	Cir.	2	SW	0.5	—	—	—	—	Cum.	8	SE	4	Cum.	5	E	2	Cum.	3	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	5	E	2	C.N.	9	E	4	—	5	—	—
26	Cir.-c.	2	WbyS	4	Cir.-c.	1	SW	0.3	—	—	—	—	Cum.-s.	4	E	1	Cum.	6	NE	1	Cum.	5	NE	2
27	Cir.	3	NW	0.3	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	6	ENE	1	C.N.	5	—	—
28	Cir.	1	N	0.3	Cir.-s.	1	SW	0.3	—	—	—	—	Cum.	4	SE	1	C.N.	8	SE	2	C.N.	5	—	—
29	—	—	—	—	Cir.-c.	4	NE	0.3	—	—	—	—	Str.	3	SE	2	C.N.	6	E	4	C.N.	5	—	—
30	Cir.-c.	3	NE	0.3	Cir.-c.	3	NNE	0.3	—	—	—	—	Cum.-s.	5	SE	2	C.N.	6	ESE	1	Cum.	4	—	—
31	Cir.-s.	2	NNW	0.5	Cir.-s.-c.	4	NW	0.5	—	—	—	—	Cum.	3	ESE	4	Cum.	5	ESE	4	C.N.	7	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.1	—	2.5	—	7.4	—	2.2	—	7.1	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
1	Calm 0	E 1	EbyN 1	NE 1	Calm 0	miles. 100	ins. —	Fine and clear till 8a. ∞ showers 10a. Frequent showers p.
2	Calm 0	E 1	EbyN 1	Calm 0	Calm 0	126.5	.56	Dull, with showers. Distant T in SW. 2p. < in SW. 8p.
3	Calm 0	Calm 0	E 1	Calm 0	Calm 0	76.5	.31	∞ a. showers nearly all day. 10.30a.—10.40a. Ugly to SE. noon.
4	W 1	E 1	Calm 0	Calm 0	Calm 0	126	.33	Very ugly, 6a. (mist) on hills 8a. Day dull for the most part. 0
5	Calm 0	Calm 0	E 3	E 4	Calm 0	51.5	.26	(mist) on swamp 6a. Fine, with ∞, till 6p., then ugly. 0 in S. p.
6	Calm 0	E 1	E 3	E 1	Calm 0	152	.41	∞ on swamp 6a. Fine all day, with ∞ till 10a. and from 6p.
7	Calm 0	E 3	E 3	EbyN 1	Calm 0	201.5	.31	2 6a. Day dull, with 0. Distant T in W. 2p. Close 8p.
8	Calm 0	E 1	E 3	EbyN 1	Calm 0	100.5	.31	(mist) on hills a. Day fine, with ∞. 0 showers in S. 4p.
9	Calm 0	ENE 1	ENE 1	ENE 1	Calm 0	128	.22	Frequent 0 showers during the day.
10	Calm 0	Calm 0	E 1	Calm 0	Calm 0	96	—	(mist) on swamp 6a. Dull and overcast 10a.—2p., then fine.
11	W 1	Calm 0	E 1	E 1	E 1	55	.40	(mist) on swamp and hills a. Overcast all day, with 0 showers.
12	Calm 0	EbyS 2	E 3	W 1	Calm 0	126	2.03	Dull and overcast, with 0 a. ∞ 2 p. Very threatening in SW. 6p.
13	Calm 0	E 1	E 1	Calm 0	Calm 0	127	—	(mist) on swamp 6a. ∞ most of day. Frequent 0 showers 2p.
14	Calm 0	E 1	ENE 2	NE 2	E 1	101	—	Dull all day. 0 showers 2p. Threatening in E. 4p.
15	EbyS 8	EbyS 6	EbyS 5	E 2	E 4	379	2.00	Very squally and threatening, with drifting 0.
16	Calm 0	E 2	Calm 0	EbyN 1	Calm 0	202	.68	(mist) on hills a. 0 noon. Very dull and overcast all day.
17	E 1	E 3	ESE 3	NE 1	Calm 0	126	.02	Dull 6a. ∞ till noon, then very fine.
18	Calm 0	EbyS 1	E 3	Calm 0	Calm 0	156	—	Day very fine. Very still 8p. K 2 2 from NW., passing right overhead 11p.—1a.
19	E 1	Calm 0	EbyS 2	Calm 0	Calm 0	142	1.45	(mist) on hills till 2p. Distant T in NW. 2p. Day very sultry.
20	Calm 0	E 1	E 3	E 1	Calm 0	71	.48	Very dull 6a. (mist) a. Very fine at noon. Distant T in SW. 2p. Very dark 10p.
21	EbyN 1	E 2	E 2	ENE 1	Calm 0	136	—	n. (mist) on hills 6a. Fine and clear a. 0 2 from S. 1p.
22	ENE 1	E 3	ESE 2	SbyE 1	Calm 0	187	.32	(mist) on hills till 8a. Very fine 10a. 0 in E. 2p. Very fine 6p.
23	E 2	E 2	E 3	E 2	Calm 0	203	—	(mist) on hills, with 0 in S. 6a. Very fine 10a. Damp wind 6p.
24	Calm 0	ESE 2	E 4	ENE 1	Calm 0	130	—	n. ∞ 2 8a. (mist) and 0 showers on hills. Very fine at 6p.
25	W 1	W 1	SbyE 2	Calm 0	—	86	2.40	(mist) on hills a. 2 9.30a.—0.5p. Overcast 2p., with 0 in E. and S.
26	W 1	S 1	NE 2	NE 2	Calm 0	80	—	n. ∞ 2 8a. Fine p. Ugly in E. 2p. ∞ 2 8p.
27	Calm 0	S 1	ENE 2	ESE 2	Calm 0	71	—	n. Very fine till 4p. 0 2 in SE. 4.15p.—5.15p. T in SW. Dull 8p.
28	Calm 0	ESE 2	EbyS 4	NE 1	Calm 0	86	.75	Fine till noon. T 0 2 in S. 1.30p.—4.20p. At 4p. 0 2 in NW.
29	Calm 0	EbyS 1	E 3	NE 1	Calm 0	86	—	n. Fine day. 0 2 in S. 2p. Very dark in S., with distant T 4p.
30	Calm 0	SE 2	E 4	Calm 0	Calm 0	91	—	n. (mist) on swamp 6a. T in SW. 0.30p.—1.30p. 0 2 in SW. 2p. ∞ 10p.
31	Calm 0	ESE	E 3	E 1	Calm 0	97	—	n. T noon—1.30p. 0 2 ESE.—WSW. noon, the storm passed westward. < in [W. 10p.
Mean	0.1	1.5	2.3	1.0	—	125.7	13.23	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

SEPTEMBER 1886.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 30°109	ins. 30°101	ins. 30°121	ins. 30°110	ins. 30°056	ins. 30°041	ins. 30°034	ins. 30°110	ins. 30°063	72°5	90°0	143°0	71°5	82°5	6°5	ins. 782	
2	078	086	102	090	025	037	051	043	039	69°0	88°0	147°0	67°5	81°3	7°0	726	
3	045	059	054	028	087	017	005	021	039	70°0	84°0	103°0	68°0	80°8	6°5	759	
4	30°001	30°027	015	29°983	059	29°984	29°982	007	034	70°0	89°0	146°0	68°0	80°9	4°0	779	
5	29°997	29°999	016	29°988	064	971	29°997	034	043	71°0	88°0	153°0	69°0	81°3	4°0	854	
6	30°021	30°053	060	30°021	29°988	29°981	30°030	057	049	70°0	89°0	145°0	68°0	81°9	11°5	812	
7	052	065	074	052	30°018	30°010	019	065	125	71°0	87°0	143°0	70°0	82°1	10°0	854	
8	059	070	077	005	29°968	011	011	031	021	71°0	88°0	149°0	68°5	81°4	4°0	871	
9	037	075	084	060	30°018	006	006	044	051	72°0	90°0	145°8	69°5	81°9	5°0	846	
10	065	113	128	043	049	043	076	112	119	73°0	89°0	143°0	72°0	82°1	7°0	854	
11	120	148	157	122	062	051	067	099	094	74°0	89°0	150°5	72°0	81°8	10°5	733	
12	081	101	116	082	043	30°026	037	069	080	74°0	90°0	142°0	69°5	82°0	11°5	756	
13	043	068	066	040	30°004	29°974	30°003	045	056	70°5	87°0	146°0	68°5	81°8	10°0	854	
14	30°017	30°029	30°037	30°023	29°969	059	29°983	30°003	30°021	71°0	89°0	143°0	69°0	81°8	9°0	832	
15	29°989	29°991	29°994	29°990	043	029	055	29°942	29°969	70°0	89°0	147°5	69°0	81°8	10°5	754	
16	083	083	088	086	074	092	800	811	818	74°0	89°0	144°0	73°0	81°8	7°0	851	
17	810	863	885	884	832	843	868	890	904	74°0	88°0	124°0	73°0	82°0	5°0	915	
18	900	942	970	924	907	902	908	908	926	74°0	86°0	141°0	72°0	82°0	9°0	783	
19	961	968	970	931	896	904	920	923	921	73°0	88°0	135°0	72°0	82°0	11°0	918	
20	911	923	939	888	824	836	866	875	882	72°0	90°0	145°0	70°0	82°0	9°0	774	
21	854	870	862	822	790	726	801	804	869	71°0	89°0	130°0	71°5	82°0	10°0	883	
22	864	881	890	857	806	814	852	880	889	74°0	94°0	145°2	72°5	82°2	7°5	761	
23	906	934	936	909	872	872	895	922	966	74°0	94°0	140°5	72°5	82°6	8°5	952	
24	944	29°969	29°960	953	889	915	970	987	991	75°0	94°0	152°0	73°0	82°9	9°0	880	
25	981	30°000	30°000	971	923	921	955	967	967	72°0	93°0	150°0	70°5	83°0	10°0	977	
26	935	29°973	30°002	981	923	905	916	951	964	72°0	80°0	—	73°0	82°9	0°5	877	
27	945	29°988	29°976	937	898	910	29°926	29°959	29°971	70°5	91°0	147°5	68°0	82°2	9°0	804	
28	29°997	30°013	30°016	991	980	983	30°013	30°026	30°061	75°0	94°0	148°0	73°0	82°2	7°0	880	
29	30°007	013	014	978	943	923	29°947	29°983	29°988	71°2	88°8	142°5	69°5	82°2	8°0	840	
30	29°991	30°019	30°030	29°998	29°958	29°950	29°964	30°013	30°023	71°0	89°0	146°0	68°0	82°2	8°5	810	
Mean	29°987	30°007	30°014	29°984	29°943	29°941	29°963	29°986	29°999	72°1	89°1	—	70°4	82°0	236°0	834	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.	
1	74°5	73°0	79°8	76°0	86°2	79°8	79°0	74°8	84°0	78°0	78°6	75°0	75°5	75°0	73°0	71°0	72°5	71°0
2	71°5	70°5	79°8	75°0	81°0	76°0	83°0	75°0	84°0	79°0	81°4	75°0	74°0	72°2	72°5	71°8	72°0	71°5
3	71°5	70°8	79°8	75°0	82°0	76°0	80°0	74°9	81°5	75°2	73°0	74°0	72°2	72°0	70°0	71°5	70°0	70°0
4	72°0	71°0	79°0	76°0	84°0	77°8	87°8	78°0	83°8	75°8	73°2	71°5	72°0	70°0	72°8	71°0	72°0	71°0
5	74°0	73°0	80°0	76°0	83°8	77°5	86°0	79°0	81°8	76°5	78°0	73°0	76°0	73°0	74°0	72°0	73°5	72°0
6	72°5	71°8	77°8	74°8	84°8	78°0	87°0	78°5	86°5	78°5	85°5	78°0	80°0	74°0	76°0	74°5	75°5	74°0
7	73°5	72°5	78°8	76°2	84°5	78°5	86°0	79°0	86°0	78°0	84°6	78°0	81°5	76°0	79°0	76°5	78°0	76°0
8	73°0	72°0	80°0	76°0	84°5	78°2	85°0	79°0	87°0	79°0	75°0	72°5	78°0	75°5	78°0	74°0	77°0	75°5
9	72°3	72°0	80°0	76°5	86°5	81°0	85°0	78°5	83°0	77°4	83°0	79°8	81°0	76°5	77°0	75°0	76°0	74°5
10	74°0	73°2	79°2	77°8	87°5	82°0	86°0	79°0	87°0	79°8	87°0	78°0	82°0	76°0	80°0	78°0	78°0	76°0
11	75°0	74°0	83°5	79°5	86°2	78°4	88°0	77°0	86°5	78°0	86°0	76°8	80°6	75°0	80°0	76°0	79°0	76°0
12	75°8	73°8	81°0	76°5	88°0	82°0	86°6	77°0	85°5	75°5	86°5	75°0	80°0	75°0	77°5	74°0	77°0	75°0
13	72°0	71°0	78°2	75°2	80°0	77°8	84°5	78°5	85°0	77°0	83°0	75°2	80°5	75°0	75°0	73°0	74°5	73°0
14	71°4	71°0	80°0	77°0	82°0	76°5	78°0	75°5	85°0	77°0	83°5	75°5	79°0	74°0	77°0	73°5	76°0	73°5
15	72°0	71°0	79°5	76°6	85°0	75°4	85°8	77°0	88°0	77°0	83°0	77°0	80°4	76°0	73°0	75°0	77°0	75°5
16	75°0	74°5	78°5	77°0	83°0	79°5	86°3	79°0	86°0	79°8	85°0	78°0	80°4	76°5	77°5	76°0	77°0	76°0
17	75°0	74°0	80°0	77°2	82°2	78°2	85°2	80°0	86°2	78°4	85°0	77°5	82°8	77°0	81°0	77°0	80°0	77°5
18	76°0	75°0	78°5	75°0	81°0	77°5	84°8	77°0	83°4	77°6	81°0	75°0	79°0	75°0	77°0	73°0	76°0	74°5
19	75°0	74°0	78°0	75°0	83°0	78°0	85°0	80°0	85°5	77°0	84°0	77°5	79°0	75°0	77°0	75°0	76°5	75°0
20	72°2	71°8	76°5	76°0	85°2	78°0	88°0	78°0	87°4	79°5	82°5	77°0	80°0	76°0	78°0	76°0	77°5	76°0
21	75°0	74°0	82°4	77°5	84°8	78°0	87°0	80°0	85°2	78°8	83°0	77°0	81°0	77°0	79°0	76°0	77°0	74°5
22	77°0	75°0	82°0	77°0	88°5	81°0	89°0	78°0	89°8	80°0	84°2	78°5	82°0	78°0	77°0	77°0	75°5	75°5
23	78°0	77°0	82°0	78°5	91°0	81°0	90°0	82°5	86°8	79°5	83°0	77°8	82°0	77°0	78°0	75°5	77°0	75°0
24	76°5	75°5	85°0	82°0	86°0	82°0	92°2	81°8	87°8	77°0	82°5	77°2	80°0	77°5	77°0	76°0	76°5	75°0
25	73°2	72°2	81°0	77°8	87°0	81°2	90°0	83°0	87°0	77°0	85°8	78°0	81°0	76°5	78°0	76°0	77°0	75°5
26	74°0	73°5	74°8	74°0	77°5	76°2	77°0	76°0	79°8	76°8	77°0	75°0	75°0	74°0	74°2	73°5	73°5	73°0
27	71°4	71°0	77°5	73°8	85°8	77°8	88°4	80°0	90°0	80°6	82°0	78°8	79°0	78°0	77°0	77°5	76°5	75°0
28	76°0	75°0	84°0	79°8	87°2	79°8	90°0	81°0	87°0	76°0	77°8	76°0	77°5	76°0	77°0	76°0	76°5	75°0
29	73°0	72°5	80°0	78°0	85°6	78°6	85°8	78°6	84°0	78°0	85°0	78°0	80°2	74°0	79°0	75°5	78°0	74°5
30	71°5	70°5	79°2	76°5	86°0	78°0	86°2	78°8	85°5	78°5	83°0	77°6	79°8	75°0	77°0	73°5	76°0	74°5
Mean	73°8	72°8	79°8	76°6	84°7	78°7	85°8	78°4	85°3	77°9	82°2	76°4	79°1	75°2	76°9	74°6	76°1	74°4

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

SEPTEMBER 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	Cir.-c.	2	E	0.5	—	—	—	—	—	—	—	—	Cum.-s.	3	ENE	3	C.N.	9	E	3	C.N.	5	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	6	C.N.	9	E	3	—	10	—	—
3	Cir.-c.	1	N	0.3	Cir.-s.	2	ENE	0.3	—	—	—	—	Cir.-s.	8	SE	2	C.N.	6	ESE	2	—	10	—	—
4	Cir.-s.	4	S	0.3	—	—	—	—	—	—	—	—	Cum.	3	E	3	C.N.	9	E	2	Cum.	5	E	2
5	Cir.-s.	3	SE	0.3	—	—	—	—	—	—	—	—	St	3	E	1	C.N.	9	E	3	Cum.	7	E	1
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	E	5	Cum.	7	E	1	Cum.	7	E	6
7	—	—	—	—	Cir.-s.	3	NNW	0.5	—	—	—	—	C.N.	9	E	2	Cum.	6	E	4	Cum.	9	E	3
8	Cir.-s.	2	E	1	Cir.-s.	2	ESE	0.5	—	—	—	—	Cum.	3	ENE	4	Cum.	5	E	2	Cum.	5	E	1
9	—	—	—	—	Cir.-s.	—	SW	0.5	—	—	—	—	Cum.	3	E	4	Cum.	4	ESE	2	Cum.	6	E	1
10	Cir.-c.	3	S	0.3	—	—	—	—	—	—	—	—	Cum.	5	E	6	Cum.	6	E	3	Cum.-s.	4	E	3
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	5	Cum.	6	EbyN	5	Cum.	4	NE	2
12	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	3	C.N.	7	E	3	Cum.	3	NE	1
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	3	NE	1	C.N.	9	ENE	3	Cum.	5	E	3
14	—	—	—	—	Cir.-s.	2	NNW	0.3	—	—	—	—	Cum.-s.	5	E	3	Cum.	5	E	2	Cum.	5	E	2
15	Cir.-s.	1	NW	0.3	Cir.-s.	2	SW	0.3	—	—	—	—	Cum.	4	ENE	2	Cum.	6	NE	2	Cum.	7	NE	4
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	NE	4	C.N.	8	E	4	C.N.	8	NE	2
17	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	10	S	5	C.N.	9	S	3	—	10	—	—
18	—	—	—	—	Cir.-s.	3	S	0.3	—	—	—	—	C.S.N.	10	S	1	Cum.	5	ESE	1	Cum.	8	—	—
19	Cir.-c.	3	N	0.3	Cir.-c.	3	NW	0.5	—	—	—	—	C.N.	6	E	2	Cum.	6	E	2	Nim.	10	—	—
20	Cir.-s.	6	NW	1	—	—	—	—	—	—	—	—	Cum.	3	N	4	Cum.	6	NE	3	—	10	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	NNW	6	Cum.	8	NW	3	C.N.	10	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	NbyW	9	C.N.	7	WNW	2	C.N.	10	—	—
23	—	—	—	—	Cir.	2	NE	0.5	—	—	—	—	Cum.	7	NNW	3	C.N.	6	NE	2	C.N.	9	—	—
24	Cir.-c. s.	7	SSW	0.5	—	—	—	—	—	—	—	—	—	0	—	—	C.N.	8	NNW	1	—	10	—	—
25	—	—	—	—	Cir.-s.	4	ENE	0.5	—	—	—	—	Nim.	10	—	—	Cum.	4	NW	1	Cum.	4	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	9	NW	2	Cum.	6	—	—
27	—	—	—	—	Cir.-s.	1	S	0.5	—	—	—	—	Nim.	10	—	—	Cum.	7	W	1	Cum.	4	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	4	C.N.	10	ESE	2	Cum.	6	E	2
29	Cir.-s.	3	SW	0.3	—	—	—	—	—	—	—	—	C.N.	6	—	—	Cum.	8	E	1	Cum.	6	ENE	2
30	Cir.-s.	3	E	1	—	—	—	—	—	—	—	—	Cum.	2	E	2	Cum.	8	E	2	Cum.	2	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	5.6	—	—	—	7.1	—	2.3	—	6.8	—	—

Day.	WIND.						Rain-fall.	REMARKS.
	Direction and Force.					Vel.		
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	W 1	SbyE 1	E 3	Calm 0	Calm 0	206	—	D n. T (every 30 seconds) 11.45a. T 2p. K ² 6p. (< ² every 3 seconds). Flash < [in E. 8p.]
2	Calm 0	E 3	E 3	Calm 0	Calm 0	111	.24	from E. 6a. (mist) on hills 8a. ² from E. Very squally 4p.
3	Calm 0	E 3	E 1	Calm 0	Calm 0	81	.17	(mist) on hills 6a. Very dark p., with ² T in SW.
4	Calm 0	E 2	SEbyE 3	NNE 1	Calm 0	115.5	—	(mist) on hills 6a. Fine till noon. ² T in S. 2p. K passing S.—N. 4p.—6p.
5	Calm 0	SE 1	E 3	Calm 0	Calm 0	110	—	D n. (mist) on swamp 6a. Fine till noon. T in S. p. Dull.
6	W 1	SE 1	ESE 3	SE 1	Calm 0	88.5	—	D n. (mist) on swamp 6a. T (one peal in NE.) 10.45a. T in S. p.
7	W 1	ESE 2	ESE 3	Calm 0	Calm 0	146	.37	(mist) on hills a. Fine till 4p. ² in E., with < ² 6p. K in S. 8p.
8	Calm 0	E 1	SE 1	Calm 0	ENE 1	126	.31	on swamp 6a. ² ga. T in N., with showers, noon. ∞ ² 8p.
9	W 1	ESE 1	W 2	ESE 1	Calm 0	75	—	on swamp and hills 6a. Day fine, with ∞.
10	W 1	SW 1	E 3	ESE 2	ESE 1	77	.58	(mist) on hills and swamp 6a. Fine p., with ∞ ² .
11	W 1	ENE 1	SE 1	ENE 2	N 1	157	—	shower in E. 8a. Fine all day, with ∞ ² .
12	Calm 0	S 1	EbyS 3	NNE 1	Calm 0	79	—	D n. on swamp 6a. Fine all day, with ∞ at times.
13	W 1	NE 1	NNE 2	Calm 0	Calm 0	108	.40	(mist) on swamp 6a. Fine 8a. 10a. ² showers from NE., T 1p. Dull 6p.
14	W 1	Calm 0	ESE 1	Calm 0	Calm 0	81	.35	D n. on swamp 6a. showers till noon. Fine p.
15	W 1	ENE 2	NE 2	ENE 1	Calm 0	81	—	on swamp 6a. Fine all day. ² in S. 2p. 4.15p.
16	Calm 0	NW 1	SSE 1	Calm 0	Calm 0	86	.92	(mist) on hills and swamp a. Dull day. ² in S. p. < in S. 8p.
17	Calm 0	E 1	S 1	ESE 3	ESE 3	75	—	(mist) on hills and swamp 6a. Dull and overcast a. Fine p.
18	WbyS 1	E 1	NW 1	Calm 0	Calm 0	162	.08	(mist) on hills and swamp 6a. Dull and overcast p.
19	W 1	Calm 0	NE 1	Calm 0	Calm 0	75	.50	(mist) on hills and swamp a. Day fine. ² from 8p.
20	W 1	SW 1	W 1	Calm 0	Calm 0	97	.14	on swamp 6a. Very fine a. Overcast 4p., with ² to W.
21	W 1	WbyN 1	WbyS 1	Calm 0	Calm 0	96	—	(mist) on hills 6a. Fine till 2p., then dull, with ² in W.
22	WNW 1	SSW 1	NW 3	S 3	Calm 0	101	—	on swamp a. Very fine 10a. ² < T in S. p. K in SW. 8p., in S. 10p.
23	W 1	W 1	NNE 1	SSW 1	Calm 0	76	—	(mist) on hills a. Sultry at noon. ² T < in S. p.
24	W 1	E 1	ENE 3	Calm 0	Calm 0	55	—	on swamp 6a. Fine a. Very dark, with ² T < in S. p.
25	W 0.5	Calm 0	NNW 3	Calm 0	Calm 0	69	—	6a. Fine all day. < in S. 6p.
26	Calm 0	Calm 0	WNW 1	W 1	Calm 0	92	2.00	T in NE. 6a. ² till noon. (mist) on hills from 4p.
27	W 0.5	SW 1	E 1	Calm 0	Calm 0	68	—	6a. Fine till 4.30p., then ² from NE. till 6p. Very fine 8p.
28	SE 1	E 2	ESE 3	Calm 0	Calm 0	88	.02	(mist) on hills 6a. Fine till noon. Very dark with ² T in S. 2p. K in N. 3p.
29	Calm 0	E 2	E 3	NE 1	Calm 0	66	.05	on swamp 6a. Day fine. ² showers in S. 6p.
30	Calm 0	ESE 2	E 2	Calm 0	E 2	116	—	D n. on swamp 6a. Fine, with ∞, 8a. (mist) on N. hills 2p. < in S. 6p.
Mean	0.6	1.2	2.0	0.6	0.3	95.8	6.13	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

OCTOBER 1886.

Day.	BAROMETRE.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Reading: corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 29°998	ins. 30°042	ins. 30°046	ins. 30°018	ins. 29°982	ins. 29°997	ins. 30°008	ins. 30°051	ins. 30°049	71°5	87°0	144°0	70°0	82°2	10°5	ins. °834	
2	29°979	°049	°060	°039	30°024	30°006	°031	°061	°067	71°0	88°0	153°0	67°5	82°2	10°0	°823	
3	30°037	30°065	30°074	30°050	30°003	29°990	30°024	30°023	30°049	71°5	89°0	139°0	70°0	82°0	8°5	°810	
4	29°963	29°993	29°999	29°945	29°904	°898	29°920	29°945	29°971	73°0	88°0	150°0	71°5	82°0	8°0	°883	
5	°957	29°970	29°994	°937	°920	°943	°951	29°983	30°009	74°0	89°0	142°5	71°5	82°0	6°0	°874	
6	29°999	30°020	30°036	29°991	°972	°947	°992	30°039	°045	74°0	89°0	139°0	71°5	82°0	5°0	°880	
7	30°029	°044	°040	30°010	°970	°968	°992	30°020	°041	74°0	89°0	140°0	71°0	82°0	9°5	°883	
8	30°011	°030	°048	29°992	°967	°962	°970	29°996	°009	72°0	88°0	143°0	71°5	82°0	10°0	°848	
9	29°987	°020	°039	°995	°957	°952	°962	29°997	°018	72°0	89°0	141°0	69°0	82°0	11°0	°738	
10	°990	°019	°025	°984	°959	°949	°968	30°018	°025	74°0	89°0	141°0	71°0	82°0	10°0	°754	
11	29°993	°030	°032	°998	°956	°915	°968	30°020	30°031	73°0	90°0	141°0	71°0	82°2	10°5	°751	
12	30°003	30°027	30°013	°957	°930	°928	°925	29°967	29°989	72°0	90°0	141°0	70°5	82°1	10°0	°799	
13	29°945	29°983	29°988	°954	°926	°915	°928	°954	°977	71°0	87°0	145°0	69°0	82°0	10°0	°655	
14	°954	29°979	29°990	29°970	°939	°930	°946	°969	29°972	67°5	88°0	143°8	65°0	82°0	10°5	°574	
15	29°995	30°035	30°050	30°012	°978	29°973	29°983	29°973	30°023	69°0	87°0	142°0	67°8	81°7	10°5	°744	
16	30°029	°061	°049	°022	29°999	30°012	30°027	30°048	°059	66°0	87°0	146°0	64°5	81°6	10°5	°633	
17	°074	°077	°100	°069	30°033	30°040	°058	°082	°077	68°0	89°0	101°0	66°0	81°3	10°5	°764	
18	°054	°085	°086	30°036	30°011	29°992	30°017	30°029	°052	67°0	89°0	121°0	65°5	81°0	11°0	°840	
19	30°011	30°026	30°027	29°980	29°948	°935	29°959	29°989	30°014	71°0	90°0	132°0	69°0	81°0	8°5	°813	
20	29°941	29°953	29°910	°910	°812	°919	°912	°952	29°947	70°0	89°0	144°0	69°0	81°0	7°0	°810	
21	°888	°911	°900	°895	°803	°785	°779	°780	°780	69°5	78°0	96°0	69°0	80°7	0°2	°807	
22	°807	°828	°782	°703	°622	°678	°706	°752	°781	72°0	79°0	—	69°5	80°0	0°2	°793	
23	°741	°779	°764	°745	°705	°706	°719	°778	°735	70°5	82°0	141°5	68°5	80°1	9°0	°833	
24	°818	°848	°866	°825	°807	°790	°818	°877	°972	70°5	91°0	141°0	69°0	80°1	9°5	°883	
25	°910	29°953	29°968	29°949	°915	°918	°928	29°932	29°988	72°0	84°0	132°0	71°5	80°1	4°5	°851	
26	°990	30°023	30°037	30°004	°952	°956	°982	30°023	30°019	71°0	82°0	140°5	70°0	80°1	8°5	°874	
27	°967	29°987	29°994	29°960	°918	°904	°914	29°955	29°987	73°5	87°0	129°0	71°5	80°1	7°0	°915	
28	°928	29°963	29°962	°923	°889	°884	°919	29°927	29°973	73°0	85°0	137°5	71°0	80°3	8°0	°793	
29	29°989	30°018	30°018	29°978	°937	°943	29°969	30°015	30°029	72°5	88°0	146°5	70°0	80°3	11°0	°868	
30	30°035	°069	°062	30°026	°999	°961	30°003	30°027	°035	71°5	88°0	144°0	69°5	80°4	10°5	°704	
31	30°018	30°039	30°044	30°010	29°978	29°960	29°970	29°992	30°017	68°5	87°0	150°5	66°5	80°5	10°5	°843	
Mean	29°969	29°998	30°000	29°964	29°926	29°924	29°943	29°975	29°992	71°2	87°8	—	69°3	81°3	266°4	°804	

DRY-BULB AND WET-BULB THERMOMETERS.																		
Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	74.5	73.0	81.0	77.0	85.0	78.0	85.8	78.5	85.5	78.0	85.0	76.0	81.0	75.5	78.0	75.0	77.0	75.0
2	72.8	71.8	79.0	76.0	85.0	78.0	85.0	78.0	82.0	77.0	82.0	74.0	79.0	74.0	76.0	74.0	75.0	74.5
3	73.0	72.0	79.0	76.0	85.0	79.0	78.0	76.0	85.2	78.6	83.5	77.0	80.3	75.4	78.5	75.5	77.5	75.0
4	73.8	73.0	79.8	77.0	83.0	78.8	87.0	80.0	85.5	79.0	81.0	77.0	80.0	77.0	78.5	76.3	78.0	76.5
5	76.0	74.0	81.8	78.0	85.0	78.2	87.5	80.0	76.0	78.0	80.0	76.5	78.8	76.8	79.0	77.0	78.0	76.5
6	75.4	74.0	80.8	78.0	85.0	80.0	87.2	80.0	86.8	80.0	81.0	78.0	79.0	76.5	78.5	77.0	78.0	77.0
7	74.4	74.0	81.2	78.8	86.0	79.8	87.0	80.0	86.8	79.8	84.8	79.0	80.0	76.5	80.0	77.0	79.0	77.0
8	73.8	73.0	81.5	78.0	85.5	78.8	86.0	78.9	85.7	77.0	84.5	76.0	80.0	75.0	80.0	75.5	79.0	75.5
9	72.2	71.5	80.0	77.0	86.0	79.0	86.2	76.5	86.0	77.0	85.0	77.0	80.2	75.0	78.5	74.5	78.0	75.0
10	74.0	73.0	80.5	77.5	86.8	80.0	88.0	77.5	88.5	80.0	84.0	79.0	79.5	77.0	78.5	75.0	78.0	75.5
11	74.0	73.0	83.0	79.5	85.0	78.5	89.0	77.8	88.8	78.8	84.0	78.2	80.2	76.0	79.0	75.0	78.0	75.0
12	72.0	71.0	76.5	75.8	85.5	79.2	85.3	77.5	86.0	77.0	81.0	74.8	78.0	78.5	78.0	75.0	78.0	75.0
13	71.5	70.5	72.2	71.6	82.0	75.0	86.5	74.5	82.5	72.5	82.5	72.5	77.5	69.5	75.2	69.5	74.0	69.0
14	68.0	67.0	76.3	73.0	83.8	72.5	86.0	72.0	84.5	75.0	80.0	72.5	77.8	71.2	77.2	72.0	77.0	72.0
15	70.0	69.4	74.5	72.4	81.5	76.8	85.0	76.2	86.0	76.5	82.6	73.5	77.0	71.5	73.4	69.8	73.0	69.5
16	68.0	67.0	77.0	73.0	84.2	73.2	85.5	73.5	85.0	75.0	79.5	74.8	77.0	74.0	74.8	69.2	74.0	69.0
17	69.3	68.4	77.8	73.0	86.5	77.8	78.0	74.0	79.8	74.0	80.0	74.0	77.0	73.5	76.5	71.0	76.0	74.5
18	68.5	68.0	76.5	73.5	80.5	74.0	84.0	78.0	81.0	74.8	81.4	73.6	77.5	73.0	76.0	72.5	76.0	73.0
19	71.5	71.0	76.5	74.8	83.0	78.5	81.0	76.4	81.0	79.8	81.0	76.0	78.0	75.0	74.5	73.0	74.0	73.5
20	72.0	71.4	75.2	73.6	83.5	77.8	86.4	78.2	79.2	75.5	71.2	70.5	72.0	71.0	72.0	71.0	71.5	70.5
21	71.2	70.8	76.0	73.8	77.2	74.8	75.2	73.8	78.0	74.0	75.8	73.0	74.0	73.2	73.5	72.5	73.0	72.5
22	73.0	72.5	73.5	72.5	73.5	73.0	74.0	73.0	74.5	73.5	77.0	75.5	75.5	74.0	74.0	72.5	73.5	72.0
23	71.5	70.8	79.5	76.5	85.0	79.0	88.4	80.5	90.0	80.0	81.0	77.0	80.0	77.0	76.2	75.0	76.0	75.0
24	74.0	73.0	78.0	75.5	84.8	79.0	87.0	80.0	87.5	79.2	81.0	77.0	78.5	75.5	77.0	75.5	76.5	75.0
25	74.0	73.6	78.5	76.0	80.4	77.8	82.0	77.5	81.2	77.5	80.8	76.8	77.4	75.0	75.5	74.0	75.0	73.5
26	72.5	72.0	75.5	75.0	83.8	78.0	89.8	80.2	88.0	79.8	82.2	78.0	81.0	76.0	80.0	76.0	79.0	76.0
27	73.5	73.0	82.0	79.0	83.5	78.8	80.0	78.0	83.0	79.0	83.0	78.0	78.5	76.0	79.0	76.0	78.0	76.5
28	74.0	73.0	80.2	78.3	80.2	78.4	84.8	77.2	84.0	76.5	85.0	79.5	79.4	75.5	77.0	75.0	77.0	75.0
29	73.0	72.2	80.2	77.5	85.5	79.8	86.5	79.5	86.0	79.0	83.5	77.5	78.0	74.8	78.0	78.4	77.5	75.0
30	72.8	72.0	79.0	77.0	85.0	78.5	85.0	76.2	85.0	76.0	84.0	76.0	78.5	74.0	77.5	73.5	77.0	74.0
31	71.0	70.5	77.8	75.0	84.5	75.0	81.8	77.2	80.8	76.0	84.2	77.0	79.0	74.8	77.5	74.0	77.0	74.5
Mean	72.4	71.6	78.4	75.8	83.6	77.7	84.5	77.2	83.9	77.0	81.7	75.9	78.4	74.6	77.0	74.0	76.4	73.9

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

OCTOBER 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	Cir.-s.	2	NE	0.3	Cir.-s.	4	E	0.3	—	—	—	—	—	0	—	—	Cum.	6	ESE	3	Cum.	4	—	—
2	Cir.-s.	5	NW	1	—	—	—	—	—	—	—	—	Cum.	2	E	3	C.N.	9	E	4	C.N.	8	E	3
3	Cir.-c.	6	S	0.3	—	—	—	—	—	—	—	—	Cum.	4	E	2	Cum.	6	E	3	Cum.	5	E	3
4	Cir.-c.	1	NW	0.3	—	—	—	—	—	—	—	—	C.N.	9	E	2	C.N.	8	ESE	2	Cum.	2	—	—
5	Cir.-s.	3	NW	0.3	—	—	—	—	—	—	—	—	Cum.	5	S	5	C.N.	8	S	2	Cum.	8	ESE	3
6	Cir.-s.	2	N	0.3	Cir.-s.	1	NW	0.3	—	—	—	—	Cum.	5	E	4	C.N.	7	E	2	Cum.	4	E	2
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	2	C.N.	8	E	2	Nim.	10	—	—
8	Cir.-s.	3	NE	0.3	—	—	—	—	—	—	—	—	Cum.	2	E	4	C.N.	8	E	2	Cum.	8	E	4
9	Cir.-s.	1	NE	1	Cir.-s.	5	NE	0.5	—	—	—	—	Cum.-s.	2	E	4	Cum.	4	E	3	Cum.	7	E	2
10	Cir.-s.	6	ESE	1	Cir.-s.	1	S	0.5	—	—	—	—	Cum.	3	ESE	1	Cum.	7	ESE	3	Cum.	4	E	2
11	Cir.-s.	8	ENE	1	Cir.-s.	4	N	0.3	—	—	—	—	—	0	—	—	Cum.	6	E	2	Cum.	7	ENE	1
12	Cir.-s.	3	—	—	Cir.-s.	3	NE	0.3	—	—	—	—	Cum.-s.	8	E	2	Cum.	6	NE	1	Cum.	8	N	4
13	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	N	4	C.N.	9	N	4	Cum.	6	N	5
14	—	—	—	—	—	—	—	—	—	—	—	—	Str.	3	NE	2	Cum.	7	N	3	Cum.	9	NE	2
15	—	—	—	—	Cir.-c.	2	WNW	0.5	—	—	—	—	C.S.N.	9	N	3	Cum.	7	NE	4	Cum.	6	NE	1
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	1	—	0	Cum.	6	NE	2	Cum.	6	NNE	2
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	ENE	1	C.N.	9	E	2	Cum.	6	E	1
18	Cir.-c.	7	WSW	1	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	9	E	4	Cum.	4	—	—
19	—	—	—	—	Cir.-c.	2	S	1	—	—	—	—	C.N.	10	NE	6	C.N.	8	ENE	4	Nim.	9	E	2
20	Cir.-c.	1	NNW	0.3	—	—	—	—	—	—	—	—	C.N.	9	NE	4	C.N.	10	E	4	Nim.	9	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	3	Nim.	10	E	4	Nim.	10	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	W	4	Nim.	10	W	6	C.N.	10	—	—
23	Cir.-s.	2	SW	1	Cir.-s.	2	SW	1	—	—	—	—	Cum.	4	W	3	Cum.	6	W	4	Cum.	6	W	2
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	W	4	C.N.	7	W	4	C.N.	7	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	10	W	2	C.N.	9	NE	4	Cum.	5	N	2
26	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	E	4	Cum.	9	S	2	Cum.	6	SW	2
27	Cir.-c.	1	S	0.3	—	—	—	—	—	—	—	—	Cum.	2	E	4	C.N.	8	E	3	C.N.	6	E	2
28	—	—	—	—	Cir.-s.	2	NW	0.3	—	—	—	—	Nim.	10	—	0	Cum.	7	E	2	Cum.	7	ESE	2
29	Cir.-s.	2	W	0.3	—	—	—	—	—	—	—	—	Cum.	3	E	1	Cum.	6	E	2	—	0	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	NE	2	Cum.	6	NE	3	Cum.	2	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	1	E	1	C.N.	8	E	1	Cum.	3	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	5.3	—	2.5	—	7.5	—	2.9	—	6.2	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	SE 1	E 4	E 3	Calm 0	90	—	D n. over swamp 6a. Very fine day. ∞ at 10p.
2	W 1	E 3	SE 2	NE 1	Calm 0	170	—	D n. on swamp 6a. showers in S. noon. from E. 6p. in E. 8p.
3	W 1	S 1	ESE 3	NE 1	Calm 0	68	32	D n. 6a. (mist) on hills 10a. noon. in NW. 6p. in S. 8p.
4	Calm 0	E 1	E 3	ENE 1	Calm 0	96	—	on swamp 6a. (mist) on hills a. showers in S. 2p. Very clear sky 8p.
5	E 1	E 3	ENE 2	Calm 0	Calm 0	91	—	6a. Heavy squall in the bay (boat lost), here, to W., 2p. in NW. 6p.
6	Calm 0	SE 2	ESE 3	NE 1	Calm 0	117	18	D n. Fine a., with ∞. Very dark, with constant in S. and SW. 2p. in E. 10p.
7	Calm 0	E 2	E 3	ENE 1	SE 2	98	—	D n. (mist) 6a. in SW. 2p. E.—W. 8p., in NW. 10p.
8	Calm 0	E 2	ESE 3	ENE 2	Calm 0	130	—	D n. (mist) on swamp 6a. Fine day, with ∞. showers in S. and SW. p.
9	Calm 0	SE 2	ESE 3	NE 1	Calm 0	130	—	D n. on swamp 6a. Fine all day, with ∞ at times.
10	Calm 0	ESE 1	SE 3	ENE 2	Calm 0	101	—	D n. on swamp 6a. Very fine a. Threatening a squall at 4p. ∞ 8p.
11	Calm 0	E 1	ENE 2	N 1	Calm 0	91	—	D n. on swamp 6a. Fine all day. showers in S. 6p. ∞ 10p.
12	Calm 0	Calm 0	NE 3	N 1	Calm 0	63	—	D n. on swamp a. Fine day.
13	W 1	NbyE 2	NNW 3	N 3	Calm 0	93	18	on swamp 6a. (mist) on hills a. Double 7a. showers 2p., otherwise [fine.]
14	W 1	SE 1	N 3	NE 2	Calm 0	101	—	D n. on swamp 6a. ∞ 8a. Day fine.
15	WNW 1	W 1	NW 1	NNE 1	Calm 0	136	21	showers from N. 6a. (mist) on hills till 10a. Day fine.
16	W 1	Calm 0	NNE 2	Calm 0	Calm 0	80	—	D n. on swamp 6a. ∞ a. Fine all day.
17	Calm 0	SW 1	Calm 0	Calm 0	NE 1	85	—	on swamp 6a. Fine a.
18	Calm 0	SE 1	N 3	NE 1	Calm 0	70	—	D n. on swamp 6a. Sultry at noon. Day fine. in SE. 8p.
19	W 1	Calm 0	SSE 1	NE 1	SE 2	78	02	(mist) on swamp and hills a. Gloomy. 2p. showers 8p. in W.
20	W 1	SE 1	ESE 7	Calm 0	Calm 0	60.5	27	(mist) on hills a. Day very dull and dark. (heavy squall) 2p. and about 4p. p.
21	Calm 0	E 2	E 3	E 3	Calm 0	90	87	(mist) till noon. from E. 4p. Very raw.
22	Calm 0	Calm 0	NNW 2	Calm 0	Calm 0	202	4.95	(mist) till 4p., then (mist) on hills. Overcast. [NW. 4p. in SW. 8p.
23	Calm 0	SW 1	E 0.5	Calm 0	Calm 0	62	10	D n. Pretty sunrise. on swamp 6a. Very fine and clear 10a.—2p. in SW. 3p. from
24	Calm 0	W 1	Calm 0	NNE 1	Calm 0	68	03	(mist) on swamp and hills 6a. Fine and clear 10a.—2p. Very dark in the west 6p.
25	W 1	NW 2	SE 1	Calm 0	Calm 0	80	41	(mist) a. Muggy at 2p. Fine from 4p.
26	Calm 0	SE 1	ESE 1	NNE 2	NE 1	—	06	(mist) a. Fine, with ∞, 10a.—2p. in S., 4p. Fine from 6p. in N.
27	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	—	45	D n. (mist) on hills. from E. 10a. Ugly in NE. 2p. in NE. 8p.
28	Calm 0	E 3	E 3	NE 1	Calm 0	—	04	(mist) from E. a. Fine p., with ∞.
29	Calm 0	E 1	ESE 1	NNE 1	—	—	—	D n. on swamp 6a. Day fine, with ∞.
30	Calm 0	ENE 3	NbyN 3	NE 3	NNE 2	—	—	D n. (mist) on hills and swamp 6a. Day fine, with ∞.
31	Calm 0	W 1	NE 1	NE 1	Calm 0	—	—	D n. on swamp 6a. Day fine, with ∞. in E. at times.
Mean	0.3	1.3	2.2	1.1	—	—	8.09	

NOTE.—On the 23rd there was 30 miles west of Sanchez. Six men and a boy in a "gallera" were struck by . Two died at once, two a few hours later, and one 20 days afterwards.

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

NOVEMBER 1886.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Tension.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	°	°	°	°	°	hours.	ins.	
1	29.985	29.990	29.999	29.950	29.904	29.893	29.906	29.933	29.969	71.0	87.1	144.0	69.5	80.6	8.5	.871	
2	.932	30.000	30.055	.942	.907	.892	.913	29.971	29.911	72.0	89.5	141.0	71.0	80.7	8.0	.885	
3	29.987	.014	.012	29.990	.950	.953	29.970	30.019	30.027	72.0	86.0	147.0	70.0	80.7	8.0	.888	
4	30.030	.053	.065	30.033	.988	.986	30.017	.041	.051	70.0	88.0	154.0	70.0	80.7	7.5	.840	
5	30.046	.070	.076	30.032	.978	.965	29.985	30.019	.033	69.5	84.0	144.0	68.5	80.8	9.0	.783	
6	29.991	30.012	.011	29.955	.899	.929	.932	29.996	.010	70.5	88.0	134.8	68.8	80.8	5.0	1.047	
7	29.981	29.995	.028	30.068	.956	.942	29.973	30.004	.015	70.5	86.0	133.2	70.0	80.8	7.5	.835	
8	30.039	30.050	.054	.015	29.993	29.991	30.005	.040	.050	70.0	85.0	138.0	68.5	80.4	8.0	.930	
9	.065	.107	.116	.069	30.020	30.020	.043	.043	.113	69.5	81.0	122.0	69.5	80.1	5.5	.726	
10	.090	.113	.110	.091	.036	.031	.044	.082	.043	66.0	88.0	134.0	63.5	79.6	9.0	.736	
11	.040	.085	.120	.044	.038	.027	.040	.053	.069	71.0	82.0	115.0	68.5	79.4	4.5	.673	
12	.063	.099	.106	.051	.019	.020	.029	.067	.064	71.5	84.0	98.0	69.0	79.2	4.0	.749	
13	.040	.085	.120	.044	.038	.027	.040	.053	.069	71.0	82.0	115.0	68.5	79.4	4.5	.673	
14	.127	.145	.150	.124	.090	.060	.082	.114	.098	72.5	87.0	141.0	70.0	79.2	10.5	.697	
15	.099	.121	.127	.079	.043	.023	.040	.060	.092	68.0	86.0	141.0	66.0	79.2	5.5	.888	
16	.086	.106	.113	.086	.040	.042	.055	.070	.084	67.5	86.0	143.6	65.0	79.1	7.0	.796	
17	.063	.065	.110	.065	.040	.058	.073	.103	.084	69.5	84.0	142.0	68.0	79.1	10.0	.735	
18	.154	.181	.201	.167	.112	.120	.131	.166	.151	68.0	85.0	132.0	66.0	79.1	10.0	.699	
19	.139	.159	.174	.126	.094	.097	.114	.123	.136	73.0	86.0	139.0	72.0	79.1	10.0	.671	
20	.102	.127	.123	.068	.024	.024	.032	.049	.057	69.0	84.0	136.0	65.0	79.1	7.5	.689	
21	.031	.097	.079	.040	30.020	30.013	.037	.037	.056	70.0	84.0	128.0	67.0	79.0	4.0	.756	
22	.033	.066	.079	.020	29.990	29.997	.017	.037	.038	70.5	83.0	116.0	68.0	79.0	7.0	.716	
23	.033	.079	.072	.044	29.997	30.016	.014	.034	.051	73.0	85.0	134.0	68.5	79.0	10.0	.580	
24	.039	.074	.087	.046	30.012	.013	.044	.075	.101	66.5	84.0	135.5	64.0	78.9	9.5	.671	
25	.063	.090	.097	.060	30.020	30.025	30.041	30.063	30.074	71.0	84.0	135.0	70.0	78.9	8.3	.706	
26	30.051	.065	.016	30.003	29.997	29.972	29.987	29.994	29.980	66.0	82.0	138.0	63.5	79.0	9.0	.657	
27	29.980	30.012	30.011	29.958	.927	.906	.923	.940	29.973	68.5	84.0	136.5	66.0	79.0	5.5	.738	
28	.951	29.977	29.995	.968	.914	.922	.935	29.965	30.000	68.0	82.0	135.0	67.0	78.4	8.5	.650	
29	29.988	30.011	30.021	29.978	.941	.945	29.973	30.013	.027	66.2	84.0	134.0	62.5	78.4	10.5	.635	
30	30.023	30.045	30.064	30.034	29.984	29.983	30.009	30.035	30.033	64.0	84.0	141.5	62.0	78.0	10.0	.675	
Mean	30.041	30.070	30.080	30.038	29.999	29.996	30.013	30.040	30.049	69.5	84.8	134.3	67.5	79.5	231.8	.759	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.	
1	73.8	72.8	77.0	75.0	84.5	79.0	85.0	79.0	84.8	78.0	80.0	77.0	78.8	76.0	78.0	76.2	77.5	76.0
2	72.8	72.0	80.0	75.8	83.2	79.0	86.2	79.8	80.0	80.5	81.0	76.5	79.0	76.0	76.5	75.0	76.0	75.0
3	72.4	71.6	78.0	75.6	83.2	77.6	84.0	79.0	84.5	78.6	81.0	76.2	78.5	73.8	77.0	74.5	77.0	75.0
4	71.2	71.0	75.5	74.0	81.8	78.0	84.0	78.0	83.0	77.5	82.0	79.0	78.0	75.0	76.0	74.5	75.5	74.0
5	70.2	69.6	76.0	73.4	83.5	78.2	83.0	76.8	83.8	77.2	82.9	78.0	78.0	76.0	78.4	74.0	78.0	74.0
6	71.8	71.0	77.0	75.0	83.0	77.5	85.6	82.6	75.0	74.2	77.0	75.8	75.0	74.8	74.6	73.2	74.0	73.0
7	72.0	71.0	74.0	72.5	79.0	76.0	79.0	77.0	81.0	75.0	81.0	77.0	78.0	74.0	75.5	73.5	75.0	73.5
8	71.0	70.5	78.0	74.5	80.8	76.8	84.0	81.0	82.0	79.0	80.0	78.5	78.0	78.0	76.0	72.5	75.0	73.0
9	70.5	70.0	72.0	71.0	75.5	73.8	79.0	78.5	79.4	71.0	79.8	70.8	75.0	68.0	75.0	72.0	74.0	71.5
10	67.0	66.2	75.5	73.0	80.5	73.5	81.2	74.6	80.9	73.6	79.8	73.0	76.2	73.0	76.5	72.5	75.0	73.5
11	75.0	69.5	72.2	71.0	78.0	71.8	80.2	72.7	79.0	74.8	77.4	71.8	76.0	71.9	76.0	71.0	75.0	71.0
12	72.0	71.0	76.0	73.8	80.0	77.0	79.0	74.0	79.4	76.4	78.2	74.0	76.0	71.2	76.0	71.0	76.0	71.0
13	75.0	69.5	77.2	71.0	78.0	71.8	80.2	72.7	79.0	74.8	77.4	71.8	76.0	71.9	76.0	71.0	75.0	71.0
14	73.2	72.6	77.0	74.8	84.0	78.5	85.0	76.0	82.0	74.0	80.5	73.4	77.0	72.5	75.8	72.2	75.0	72.5
15	69.0	68.0	72.0	71.0	80.0	77.0	84.5	79.2	74.0	71.6	80.0	74.5	77.0	73.0	75.0	73.0	75.0	73.0
16	68.5	68.0	75.0	73.0	81.8	75.2	84.0	77.0	83.5	76.0	81.5	74.0	76.0	71.6	75.2	73.0	75.0	73.0
17	70.0	69.5	75.0	72.5	82.5	77.6	82.0	76.0	83.0	76.0	82.0	78.0	77.0	76.0	74.5	73.0	75.0	71.0
18	69.0	68.0	75.2	72.5	81.0	76.4	82.0	74.0	82.0	73.8	81.5	75.8	77.0	76.0	74.5	73.0	75.0	71.0
19	73.5	70.0	80.5	73.5	83.9	74.8	84.0	74.0	83.0	75.2	80.0	72.5	75.0	70.0	76.0	73.2	75.0	73.5
20	72.0	69.0	78.4	73.2	79.8	74.8	82.0	73.8	80.4	74.7	78.0	74.0	75.5	72.0	75.0	72.0	74.5	72.0
21	73.5	72.0	75.4	74.2	77.0	74.0	81.0	76.0	80.6	74.0	79.0	74.5	75.4	72.6	73.0	70.0	71.5	69.5
22	74.0	72.0	77.8	71.8	82.0	72.5	81.0	74.0	80.8	74.4	77.0	73.4	75.0	72.0	74.0	71.8	73.0	71.5
23	74.5	70.0	78.5	71.0	81.9	71.0	82.8	71.0	81.9	69.9	78.5	75.0	74.5	70.0	75.0	71.8	74.0	71.0
24	67.0	66.5	74.9	71.9	80.0	75.0	84.0	74.0	81.0	76.0	77.0	73.0	75.0	72.0	74.0	72.0	73.0	71.5
25	72.0	71.0	75.8	73.8	81.0	78.2	79.0	73.0	79.2	72.0	79.2	72.0	75.0	70.2	72.0	69.6	71.0	69.0
26	66.5	66.0	72.0	70.0	78.0	75.5	79.0	71.8	78.5	72.4	76.0	71.7	72.8	69.2	71.2	69.2	71.0	69.2
27	71.0	68.7	74.0	71.0	79.0	74.0	83.2	76.4	78.0	74.0	77.0	73.0	74.2	70.2	73.0	70.0	72.0	69.5
28	69.0	67.0	74.0	72.0	79.8	74.0	77.9	71.2	81.4	72.8	78.0	71.5	74.8	69.8	73.0	69.4	72.0	69.0
29	66.2	65.8	72.0	70.0	78.0	71.2	81.2	72.0	81.2	72.0	80.0	71.0	75.0	68.4	71.5	68.8	70.0	67.6
30	65.5	64.0	71.8	69.0	81.5	74.6	81.0	73.0	81.6	72.2	78.6	72.0	75.0	71.0	74.0	71.0	74.0	70.6
Mean	71.0	69.5	75.6	72.7	80.7	75.2	82.1	75.3	81.1	74.7	79.4	74.0	76.2	72.1	75.0	72.0	74.3	71.8

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

NOVEMBER 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	E	2	Cum.	7	E	3	C.N.	9	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	NE	3	Cum.	6	ESE	2	C.N.	10	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	7	E	2	Cum.	7	E	3	C.N.	10	—	—
4	—	—	—	—	Cir.-s.	2	SE	1	—	—	—	—	Nim.	10	—	0	C.N.	7	E	3	Cum.	6	W	1
5	—	—	—	—	Cir.-c.	2	S	1	—	—	—	—	Cum.-s.	5	N	1	Cum.	7	NE	1	C.N.	10	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	SSE	4	C.N.	10	SW	1	C.N.	9	—	—
7	Cir.-s.	2	S	1	Cir.-c.	4	W	1	—	—	—	—	C.S.N.	7	NE	3	Cum.	5	NNB	2	C.N.	10	NE	3
8	—	—	—	—	Cir.-c.	3	ESE	0.3	—	—	—	—	C.N.	8	N	5	Cum.	6	N	2	Cum.	8	N	3
9	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	0	C.N.	9	E	3	Cum.	7	NE	4
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	NE	5	Cum.	8	ENE	5	Nim.	10	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	ENE	3	C.N.	9	NE	2	C.N.	10	NE	1
12	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	ENE	1	C.N.	9	E	3	Cum.	4	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	ENE	1	C.N.	9	NE	2	C.N.	10	NE	2
14	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	E	3	Cum.	6	ENE	2	Cum.	3	ENE	—
15	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	8	E	4	C.N.	9	E	3	Cum.	7	E	2
16	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	3	Cum.	7	NE	3	C.N.	7	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	7	E	4	Cum.	7	E	4	C.N.	6	E	5
18	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	E	3	C.N.	9	E	3	C.N.	3	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	4	C.N.	7	E	3	C.N.	6	E	2
20	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	NE	4	C.N.	8	E	3	C.N.	6	E	2
21	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	2	C.N.	9	E	3	Cum.	3	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	NNE	4	C.N.	8	NE	3	C.N.	8	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	N	2	Cum.	5	ENE	3	C.N.	9	E	2
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	3	C.N.	9	E	2	C.N.	8	E	2
25	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	2	Cum.	7	E	3	C.N.	4	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	N	3	Cum.	8	NE	3	C.N.	6	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	9	N	3	C.N.	9	N	3	C.N.	8	N	2
28	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	9	N	4	Cum.	6	NE	2	Cum.	8	NE	2
29	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	NE	2	Cum.	7	ENE	2	Cum.	3	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	1	Cum.	9	E	2	Cum.	4	E	2
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	7.5	—	2.7	—	7.6	—	2.6	—	7.1	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	SW 1	ESE 3	Calm 0	N 1	—	—	[Clouds low p. 2 from N. 8p.
2	Calm 0	SE 1	E 1	NNE 2	Calm 0	—	.70	● n. 2 a. Clouds low 8a. (mist) gathering on hills 10a.
3	W 1	SE 1	E 3	Calm 0	Calm 0	—	.02	● (mist) 6a. Fine 8a.—2p. Clear 10a.—2p. ● in S. p. ● 8p. K in NW.
4	Calm 0	Calm 0	NNE 3	Calm 0	Calm 0	—	.01	● (mist) 6a. Fine 8a.—2p. Distant T in SW. 4p. K to W. 6p. Ugly 10p.
5	Calm 0	SW 1	E 4	ENE 1	Calm 0	—	—	● (mist) till 10a. ● passing W. along north hills noon. Very ugly p. < in SSW. 6p.
6	W 1	SE 2	Calm 0	ENE 1	Calm 0	—	—	● n. Fine a. ∞ 2 4p. K in S. and W. (one flash and peal overhead) 8p. T 10p.
7	W 1	E 1	NNE 3	NE 3	NNE 2	—	.22	● n. K 2 in WNW, passing to S. 11a.—2p. ● from noon. T in S. 4p. < 8p.
8	Calm 0	W 1	NNE 4	Calm 0	N 3	—	.36	● n. 2 on swamp and hills 6a. Very dull till noon. 4.30p. K in NE. 8p. ● 2 9p.
9	Calm 0	Calm 0	NNW 3	Calm 0	Calm 0	—	1.12	● most of n. 2 in N. 6a. Day fine, but clouds lowering on the N. hills.
10	W 0.5	E 2	N 4	NNW 4	Calm 0	—	.04	● (mist) on hills. ● till noon. Very fine p. ● showers in S. 2p.
11	NNE 3	NNE 3	N 3	Calm 0	NNE 3	—	.21	Watery sky a. Very squally 2p. Double (p. 2 (mist) on hills 8p. ● 2 showers 10p.
12	Calm 0	NW 1	E 1	E 1	NE 4	—	—	Very gusty wind 6a. Very threatening all round 8a. ● showers 10a. Dull p. ● 0
13	NNE 3	NNE 3	N 3	Calm 0	NNE 3	—	.21	● on swamp 6a. 2 (mist) on hills till noon. ● showers 2p. Dull, with ∞ 2.
14	Calm 0	W 1	NE 2	Calm 0	Calm 0	—	.19	Dull and overcast all day, with ∞ and ● showers.
15	W 1	W 1	Calm 0	NNE 3	Calm 0	—	.17	● n. 2 (mist) on swamp and hills a. Day fine from 10a., with ∞.
16	W 1	W 0.5	NE 2	Calm 0	Calm 0	—	.20	● n. 2 on swamp and S. hills a. ● 0 showers 10a.—4p. Very fine from 8p.
17	W 1	SW 1	ESE 3	ENE 2	Calm 0	—	—	2 6a.—8a. Day fine, but with ∞.
18	W 1	ESE 3	E 3	Calm 0	Calm 0	—	.10	2 (mist) on swamp 6a. ● 2 in E. and S. 8a. ● showers noon. Fine p., with ∞.
19	WNW 1	E 3	E 3	Calm 0	NNW 3	—	—	● n. 2 on swamp 6a. Day fine, with ∞. ● in E. and SE. at times.
20	NE 1	NE 2	NE 3	NE 3	ENE 2	—	.21	● showers in SE. and SW. a. Day fine, with ∞. < in E. 8p. Gusty 10p.
21	W 1	NW 1	E 1	Calm 0	Calm 0	—	.33	2 (mist) on hills a. Day dull and overcast, with ● showers. T in NNE. 1.30p. (
22	NE 1	NW 3	N 3	N 3	N 3	—	—	Day overcast, with 2 (mist) on hills, and ● showers.
23	NNE 3	NE 3	E 2	NE 2	Calm 0	—	.03	Red sunrise. Threatening in E. 8a. ● showers. Squally from 8p.
24	W 0.5	W 1	E 1	Calm 0	Calm 0	—	—	Rough 6a. ∞ 2 10a. Very fine noon—2p. Dull 4p. (5p.
25	Calm 0	E 2	E 3	Calm 0	Calm 0	—	.15	2 (mist) on swamp 6a. Close and muggy a. ● showers p.
26	Calm 0	WNW 1	NE 2	Calm 0	Calm 0	—	.03	Very dark in E., S., and W. 6a. Dull 8a., with 2 (mist) on swamp. Fine p., with ∞.
27	W 1	Calm 0	E 1	Calm 0	NW 2	—	.15	● n. 2 on swamp 6a. Day dull and overcast, with ● showers. (p.
28	W 1	N 1	NNE 3	Calm 0	Calm 0	—	.65	2 (mist) on hills a. ● showers.
29	Calm 0	NW 1	NW 3	NE 1	Calm 0	—	.01	● n. Very gloomy in E. 6a. Overcast a. 2 (mist) on hills. Fine p.
30	W 1	WNW 1	N 2	NNE 3	NNE 2	—	—	2 (mist) on hills a. Dull and overcast till noon, then fine.
								● n. 2 (mist) on swamp 6a. Day fine and clear, except from noon—2p.
Mean	0.8	1.4	2.4	1.0	0.9	—	5.61	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' N. Lat. 19° 13' W. Height above Mean Sea Level, 50 feet.

DECEMBER 1886.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Tension.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.						hours.	ins.	
1	30°053	30°090	30°086	30°038	30°014	30°015	30°032	30°071	30°075	67°5	83°0	144°0	66°0	78°1	9°0	78°1	
2	050	066	072	018	29°962	29°974	29°982	029	003	66°0	84°0	130°0	63°5	78°0	9°0	78°8	
3	011	041	056	021	29°973	29°973	30°041	043	053	65°0	83°0	144°0	63°0	78°1	10°5	76°9	
4	072	101	115	095	30°063	30°058	090	117	102	64°4	79°0	86°0	62°0	78°1	0°5	77°8	
5	144	142	162	112	066	067	074	115	096	65°0	84°0	135°5	62°0	78°0	8°0	77°3	
6	075	127	122	078	020	026	036	077	094	65°0	83°0	137°0	62°0	78°0	6°5	77°3	
7	040	077	091	040	034	020	043	086	104	64°5	75°0	—	63°0	78°0	1°5	77°8	
8	080	126	131	086	046	036	072	095	096	65°0	83°0	141°5	63°5	77°8	8°0	76°4	
9	074	119	132	058	023	026	047	078	083	67°0	84°0	141°0	65°0	77°4	7°0	78°7	
10	054	096	077	047	008	017	035	070	093	66°5	82°0	135°0	66°0	77°3	7°0	77°9	
11	048	078	082	049	006	30°003	017	040	068	66°0	84°0	137°5	63°0	77°3	6°0	77°4	
12	051	082	090	032	30°000	29°997	005	048	046	68°0	85°0	138°0	63°0	77°6	8°0	78°1	
13	020	064	068	015	29°999	073	30°002	014	014	72°5	82°0	135°8	69°0	77°8	7°0	77°1	
14	010	066	073	016	29°958	065	29°995	29°999	033	66°0	82°0	144°0	63°0	78°0	8°5	77°1	
15	008	055	080	044	30°024	29°991	30°035	30°038	074	68°5	84°0	137°0	68°0	77°9	9°0	77°6	
16	100	117	137	114	077	30°072	087	128	143	67°0	81°0	139°0	65°5	77°8	2°0	78°7	
17	107	141	165	125	063	062	073	087	097	68°0	80°5	123°0	65°0	77°3	3°0	76°6	
18	048	091	098	062	018	016	051	085	101	69°0	82°0	139°0	68°0	77°3	6°0	78°2	
19	077	101	101	108	039	029	037	065	077	68°0	81°0	—	66°0	77°2	5°0	77°3	
20	076	090	111	094	023	018	058	081	098	68°0	82°0	136°0	67°0	77°2	8°0	77°6	
21	082	127	125	092	035	046	077	125	121	66°5	83°0	141°0	64°5	77°3	6°0	78°2	
22	136	144	171	144	064	064	085	095	094	66°5	85°0	114°0	64°0	77°2	7°0	76°6	
23	087	123	122	098	047	035	058	050	105	66°5	83°0	—	65°0	77°0	3°0	77°1	
24	080	103	125	092	049	034	059	087	087	64°0	83°0	138°5	61°5	77°0	9°0	76°6	
25	068	115	128	099	051	060	073	089	133	63°0	82°0	131°0	61°0	77°0	10°5	76°2	
26	097	119	137	108	088	080	090	134	114	64°5	84°0	131°0	61°0	76°8	8°0	77°1	
27	130	155	197	166	103	120	120	139	110	64°0	79°0	106°0	62°5	76°6	5°0	74°6	
28	149	157	173	173	081	069	093	105	095	65°5	83°0	143°5	64°0	76°5	7°0	79°3	
29	086	109	107	086	005	017	039	071	088	64°0	84°5	143°0	62°0	76°4	6°0	76°1	
30	015	070	089	058	30°025	033	033	041	019	66°0	79°0	135°0	63°5	76°1	7°0	76°0	
31	30°021	30°063	30°094	30°038	29°998	30°003	30°003	30°032	30°009	67°0	83°0	136°0	64°5	76°1	9°0	76°7	
Mean	30°069	30°102	30°113	30°078	30°030	30°029	30°050	30°076	30°082	66°3	82°4	—	64°1	77°4	205°0	77°3	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	68°8	68°0	73°0	74°0	78°5	74°5	78°7	72°0	78°0	73°0	77°8	72°0	76°0	71°3	75°3	71°3	74°0	70°6
2	66°5	65°8	74°0	72°0	81°0	74°0	83°5	75°0	80°5	73°8	77°8	72°0	75°0	71°0	73°0	68°0	72°0	67°5
3	65°3	64°5	72°8	67°5	80°0	71°5	79°0	70°5	81°0	71°2	78°0	71°0	73°0	68°7	71°0	68°2	70°0	67°0
4	66°0	64°8	70°5	69°5	76°0	73°0	72°0	71°0	75°5	72°5	72°8	69°2	71°5	70°5	69°0	68°2	68°0	67°0
5	66°0	65°5	75°0	73°2	80°2	74°9	80°5	74°0	80°5	73°7	79°0	72°0	75°8	70°2	74°0	69°5	73°0	69°0
6	65°5	64°6	71°4	69°6	80°2	74°9	83°9	75°0	78°5	71°4	78°0	70°8	73°0	66°9	70°8	66°0	68°5	65°0
7	66°0	66°0	69°8	68°0	73°5	71°0	72°0	71°0	72°8	70°0	73°5	72°5	71°0	70°7	69°0	68°2	68°5	67°5
8	66°2	65°9	66°9	66°2	76°2	72°8	80°5	72°0	79°8	69°8	76°4	68°5	72°0	67°2	71°2	67°0	70°0	66°4
9	68°0	67°5	69°5	68°7	71°0	70°0	78°2	75°0	78°1	72°9	76°0	72°0	74°2	71°0	71°0	70°0	70°0	68°5
10	67°3	66°9	70°0	69°0	77°5	76°8	78°8	75°0	80°5	75°4	77°0	72°0	74°5	71°0	74°0	70°8	73°0	70°0
11	66°0	65°5	74°0	73°0	81°0	75°2	81°3	75°0	82°6	74°8	78°5	74°0	76°0	72°0	74°0	70°5	72°0	69°5
12	70°0	69°0	74°5	70°8	82°0	75°5	81°8	76°6	81°6	76°6	77°5	70°0	76°3	70°9	74°5	74°0	73°5	73°0
13	73°2	72°0	78°0	74°0	80°0	75°0	80°8	73°8	81°0	75°0	79°9	73°6	74°5	69°0	74°0	70°8	72°8	69°5
14	66°3	65°9	72°2	70°2	80°5	75°0	81°0	74°9	81°0	73°0	78°5	73°0	74°0	69°5	74°0	70°0	74°0	70°0
15	71°2	70°6	75°2	73°0	80°5	74°0	81°0	74°0	81°0	73°8	80°1	73°5	73°8	68°8	71°5	67°5	70°4	67°6
16	67°0	66°5	73°0	70°5	75°0	73°2	78°2	75°0	80°8	76°8	74°8	73°5	72°5	71°6	72°0	71°0	70°4	69°5
17	68°0	66°8	73°8	68°8	77°8	74°0	75°9	73°2	80°0	74°0	76°8	73°0	75°0	72°0	75°0	74°8	74°0	70°5
18	70°5	69°8	73°0	72°0	80°8	76°2	82°0	77°0	81°2	75°0	81°0	76°0	76°0	71°5	75°0	74°3	74°0	70°5
19	70°0	69°4	75°0	73°0	76°8	74°0	74°8	72°0	73°5	71°2	77°5	73°0	74°0	71°0	74°0	70°8	73°0	70°2
20	70°2	70°0	75°0	73°0	80°0	74°8	81°0	75°0	81°2	73°8	80°2	74°9	76°0	73°0	73°0	70°6	72°0	69°4
21	69°0	68°6	71°4	71°0	76°0	74°0	80°2	76°2	81°8	73°6	80°0	75°0	77°0	72°0	75°6	72°0	74°5	73°0
22	67°0	66°0	72°0	70°0	81°2	73°8	81°0	72°8	80°2	74°8	77°0	70°2	73°0	71°5	72°5	71°0	71°6	70°0
23	67°0	66°5	71°0	70°0	77°0	73°5	78°0	73°0	73°0	72°0	71°0	72°0	72°0	68°6	70°0	68°0	68°0	67°0
24	65°0	64°5	70°5	70°0	80°5	73°8	81°8	75°0	78°5	71°0	77°0	72°0	73°0	69°0	72°0	68°0	71°0	67°0
25	63°5	63°0	71°2	69°0	77°8	73°0	78°4	70°6	80°2	71°0	76°0	71°0	73°2	68°7	71°5	67°5	70°0	66°5
26	65°0	64°0	67°0	66°0	77°2	73°0	84°0	75°0	80°0	73°0	71°0	70°5	69°3	68°2	67°2	67°0	65°8	65°8
27	66°0	65°0	68°3	67°8	77°2	70°4	74°0	72°0	76°2	72°6	77°0	73°0	71°5	68°6	70°5	68°2	69°0	67°4
28	68°5	66°5	73°0	70°5	77°5	72°5	80°5	78°5	76°0	72°0	71°8	71°8	72°5	67°8	71°0	66°5	69°0	67°0
29	66°5	66°0	68°5	67°8	75°5	72°5	76°0	71°0	78°0	71°5	78°3	72°5	73°8	69°0	72°0	67°5	70°0	67°0
30	68°5	67°8	72°8	70°8	73°8	70°5	78°0	72°0	75°0	71°6	75°0	70°6	73°0	69°8	72°5	69°3	71°8	68°0
31	67°0	66°0	71°0	69°0	81°0	75°4	78°6	72°6	79°5	72°0	79°0	72°5	74°6	69°2	73°5	70°0	72°0	69°6
Mean	67°5	66°7	72°0	70°8	78°0	73°6	79°2	73°7	79°0	72°9	77°3	72°2	73°8	70°0	72°4	69°4	71°2	65°6

Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.—SANCHEZ, SAN DOMINGO.

DECEMBER 1886.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	NE	4	C.N.	9	E	2	Cum.	7	NE	2
2	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	N	6	Cum.	8	N	2	Cum.	7	N	3
3	—	—	—	—	Cir.-c.	2	W	0'3	—	—	—	—	C.S.N.	5	N	2	Cum.	6	N	3	Cum.	6	N	2
4	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	ENE	4	C.N.	10	E	2	C.N.	8	E	3
5	—	—	—	—	Cir.-c.	2	SE	0'3	—	—	—	—	Cum.	6	E	2	C.N.	6	E	3	Cum.	9	E	3
6	Cir.	6	W	1	—	—	—	—	Cir.-s.	3	WNW	0'5	Cum.-s.	3	E	4	Cum.	9	E	4	Cum.	5	E	2
7	—	—	—	—	—	—	—	—	Cir.-s.	4	NE	0'3	Cum.-s.	9	E	3	Nim.	10	—	—	Cum.	4	E	2
8	—	—	—	—	Cir.-c.	3	SSW	1	Cir.-c.	6	SSW	1	C.N.	9	E	3	Cum.	6	E	4	Cum.	3	E	2
9	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	8	ENE	2	Cum.	8	E	2
10	—	—	—	—	Cir.	3	NE	0'3	—	—	—	—	C.N.	10	E	3	Cum.	6	E	2	Cum.	5	E	1
11	—	—	—	—	Cir.	5	SSW	0'5	—	—	—	—	Cum.-s.	4	E	2	Cum.	3	E	2	Cum.	5	E	2
12	—	—	—	—	Cir.-c.	3	S	0'3	—	—	—	—	C.N.	9	E	2	Cum.	4	E	2	Nim.	10	—	—
13	—	—	—	—	Cir.	4	S	0'3	—	—	—	—	C.N.	10	E	4	Cum.	3	E	2	Cum.	5	E	3
14	Cir.	4	W	1	Cir.	4	SW	0'3	—	—	—	—	Cum.	2	E	1	Cum.	3	E	2	Cum.	4	—	—
15	—	—	—	—	Cir.	2	SW	0'5	—	—	—	—	C.N.	9	SE	1	Cum.	3	E	2	Cum.	4	—	—
16	Cir.	3	S	0'3	—	—	—	—	—	—	—	—	Cum.-s.	3	E	2	C.N.	10	E	3	Cum.	9	E	2
17	—	—	—	—	Cir.-c.	2	NE	0'5	—	—	—	—	C.N.	8	E	2	C.N.	7	E	2	Nim.	10	—	—
18	—	—	—	—	Cir.-c.	3	SE	0'3	—	—	—	—	C.N.	10	ENE	4	Cum.	3	E	3	Cum.	6	E	2
19	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	C.N.	10	—	—	Cum.	6	NE	2
20	—	—	—	—	—	—	—	—	—	—	—	—	C.N.S.	9	E	2	Cum.-s.	4	E	2	Cum.	4	E	2
21	—	—	—	—	Cir.	3	WSW	0'3	—	—	—	—	C.N.	10	E	2	Cum.	4	E	2	Cum.	6	E	2
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	E	3	Cum.	8	E	2	C.N.	9	E	2
23	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Nim.	9	E	3	Cum.	4	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	2	Cum.	6	E	3	Cum.	3	—	—
25	Cir.	2	W	1	—	—	—	—	—	—	—	—	Cum.	3	E	3	Cum.	6	E	2	Cum.	4	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	E	1	C.N.	8	E	2	Cum.	5	E	2
27	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	C.N.S.	8	E	2	Cum.	5	W	—
28	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	3	C.N.	9	E	3	Cum.	3	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	NE	3	Cum.	7	E	2	Cum.	7	E	2
30	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	7	E	2	C.N.	7	E	3	Cum.	4	—	—
31	—	—	—	—	Cir.-c.	2	WSW	0'5	—	—	—	—	Cum.-s.	4	E	3	Cum.	4	E	2	Cum.	3	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	7'3	—	—	—	6'6	—	—	—	5'7	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
1	W 1	N 0.5	NNE 1	NE 1	Calm 0	miles. 100	ins. .01	☁ ² (mist) to N. 8a. Overcast most of day. ● showers p.
2	W 1	W 1	N 2	NNE 2	Calm 0	90	—	☁ ⁰ (mist) on swamp and hills a. Dull at noon. ● showers p. ☾ 4p. Fine and clear 8p.
3	NW 1	NE 2	NE 2	Calm 0	Calm 0	66	.04	☁ 6a. Partial ☾ 7.30a. Day fine.
4	W 1	WSW 1	NE 1	Calm 0	Calm 0	122	—	☾ 8a. ☁ ⁰ (mist) on hills a. Clouds low, ● in E. ☾ 8p.
5	W 1	W 1	ESE 3	E 1	E 2	80	.50	● n. ☁ ⁰ (mist) over valleys 6a. Fine day, with ☁. Threatening in NE. 2p.
6	W 0.5	WSW 1	ESE 3	NE 1	Calm 0	145	—	● n. ☁ ⁰ on swamp and S. hills 6a. Day fine, with ☁ ² . Earthquake 0.15p.
7	W 1	E 1	W 0.5	Calm 0	Calm 0	110	.26	● n. ☁ ⁰ 10a.—4p. Clouds low, ☁ ⁰ (mist) on hills p. ☁ to E. 6p. ☾ ☁ ² 8p.
8	W 1	WbyS 1	ENE 2	Calm 0	Calm 0	88	.20	● n. ☁ ⁰ on swamp and to S. and W. a. Fine, with ☁ from 10a. Beautiful cir.-c. 6p.
9	W 1	W 0.5	SSE 1	Calm 0	Calm 0	111	.20	● n. ☁ ⁰ (mist) a. Fine, with ☁ 2p. ☾ 4p. Watery looking 8p. [Fine p.
10	W 1	WSW 1	SSE 2	Calm 0	Calm 0	72	.03	● n. ☁ ⁰ on swamp and to S. 6a. ☁ ² 8a. Threatening in NE. 10a. Muggy at noon.
11	Calm 0	Calm 0	SE 1	Calm 0	Calm 0	74	—	☾ n. ☁ ⁰ (mist) on swamp 6a. Very close, with low clouds 10a. Fine p., with ☁.
12	W 1	S 1	ESE 2	Calm 0	Calm 0	62	—	☁ ⁰ (mist) on swamp 6a. ● in S. 8a. Clouds lowering 10a. Fine noon—6p. ● 2 10p.
13	E 1	E 3	ESE 3	Calm 0	Calm 0	170	.40	☁ ⁰ (mist) on hills 6a. Day fine, with ☁.
14	Calm 0	SSE 1	ESE 2	Calm 0	Calm 0	123	—	☾ n. ☁ ⁰ (mist) on swamp 6a. Day fine, with ☁.
15	Calm 0	ESE 1	ESE 3	Calm 0	Calm 0	93	.20	● n. ☁ ⁰ (mist) on swamp and hills a. Threatening in E. 6a. Day fine, with ☁.
16	W 1	Calm 0	SE 2	Calm 0	Calm 0	132	.32	● n. ☁ ⁰ (mist) on swamp 6a. Watery looking in E. 8a. ● 10a. ☁ ⁰ (mist) to N.,
17	Calm 0	WNW 1	NE 3	NE 2	NE 2	40	.54	● in E. a. Gloomy and overcast, with ● showers. ☾ 4p. [with clouds low, and ● 2p.
18	Calm 0	SE 1	ESE 3	Calm 0	Calm 0	86	.54	☁ ⁰ (mist) on swamp 6a. ● showers a. Fine p. [2p. Fine from 4p.
19	NW 0.5	E 1	Calm 0	NE 1	Calm 0	97	.07	☁ ⁰ (mist) on hills and swamp a. Ugly in E. 8a. ● 0 noon. Squall 1p. ● from E.
20	Calm 0	E 1	ESE 3	Calm 0	Calm 0	85	.25	● n. ☁ ⁰ (mist) on swamp and hills a. Ugly in E. Clouds low 8a. Fine from 10a.,
21	W 1	SE 0.5	ESE 3	NE 1	Calm 0	120	.37	☁ ⁰ (mist) on swamp, with low clouds and ● a. Fine p., with ☁. [with ☁.
22	Calm 0	SE 1	NE 1	Calm 0	Calm 0	64	—	☾ n. ☁ ⁰ (mist) on swamp 6a. Fine, with ☁ 8a.—2p., then overcast, with ● showers.
23	Calm 0	W 0.5	Calm 0	ENE 1	Calm 0	76	.24	☁ 6a.—8a. ● 2 showers from E. noon. Very dark in SSW. 6p. [☀ 5p.
24	Calm 0	SW 1	E 1	Calm 0	Calm 0	53	.52	☾ n. ☁ ⁰ on swamp 6a. Fine, with ☁, 8a.—noon. ● showers p. ☾ 3.30p. Fine
25	W 0.5	Calm 0	ESE 2	EbyS 1	Calm 0	67	—	☾ n. ☁ ⁰ on swamp 6a. Day fine, with ☁. ☾ 4.15p. [from 6p.
26	WNW 1	NNE 1	E 2	Calm 0	Calm 0	60	—	☾ n. ☁ ⁰ (mist) on swamp 6a. ● showers in S. and E. [clouds 2p. Ugly in W. 10p.
27	W 1	E 1	SE 1	Calm 0	Calm 0	59	.47	☁ on swamp 6a. ● 0 showers 8a. ● 10a. ☁ ² (mist) on hills noon. Dull, with low
28	W 1	Calm 0	ESE 3	E 1	Calm 0	69	.15	● 2 from E. 6a. ☁ ⁰ (mist) on hills 8a. Fine, with ☁ 10a. ● in SE. 2p. Fine from 4p.
29	W 1	W 1	E 2	NE 1	Calm 0	105	.11	● a. Day fine from 2p.
30	Calm 0	Calm 0	E 3	Calm 0	Calm 0	98	.09	● in SW. 6a., in E. 10a., in NE. 6p. Day fine, with ☁ till 2p. Dull 4p.
31	Calm 0	WSW 1	E 2	E 1	Calm 0	91	—	☾ n. Red sunrise. Fine day, with ☁. Dark in SW. at 6p.
Mean	0'6	0'9	1'9	0'5	0'1	90'6	5'51	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

JANUARY 1887.

Day.	BAROMETER.									TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fah. at the Mean Sea Level.									Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.			Noon.
1	ins. 30°035	ins. 30°063	ins. 30°065	ins. 30°019	ins. 29°982	ins. 29°969	ins. 30°005	ins. 30°035	ins. 30°065	66°0	82°0	134°0	62°0	76°3	9°0	ins. °668
2	°046	°055	°059	°010	°064	°059	29°971	°011	°036	65°5	84°0	138°0	63°0	76°5	9°0	°633
3	°012	°041	°048	°010	29°980	29°973	30°025	°039	°097	65°5	84°5	138°0	63°0	76°6	10°5	°668
4	°065	°084	°105	°032	30°010	30°019	°005	°059	°077	64°0	84°0	139°5	63°0	76°6	9°0	°624
5	°059	°093	°113	°074	°021	°019	°036	°055	°047	66°5	82°0	136°0	67°0	76°6	7°0	°697
6	°094	°119	°119	°095	°063	°027	°075	°102	°079	62°5	84°0	126°0	61°0	77°0	7°0	°738
7	°098	°142	°138	°114	°068	°077	°105	°126	°089	66°0	85°0	147°0	64°0	77°0	7°0	°598
8	°104	°134	°148	°104	°064	°048	°082	°121	°139	67°0	83°0	141°0	65°5	77°1	9°5	°738
9	°065	°139	°146	°121	°075	°069	°087	°113	°074	65°0	83°0	143°0	65°0	77°5	10°0	°716
10	°073	°096	°098	°061	°008	°004	°029	°054	°097	65°0	81°0	138°0	60°0	77°3	10°0	°697
11	°062	°101	°126	°092	°046	°051	°070	°100	°089	64°5	85°0	133°0	61°0	77°5	10°0	°630
12	°104	°134	°137	°104	°070	°074	°085	°121	°143	66°0	83°0	130°0	63°0	77°6	10°0	°689
13	°160	°202	°210	°169	°118	°117	°136	°166	°139	64°5	84°0	137°0	63°5	77°7	10°0	°675
14	°174	°219	°218	°169	°128	°136	°139	°183	°154	69°0	84°0	132°0	66°0	77°9	7°0	°514
15	°160	°194	°190	°118	°076	°081	°092	°140	°151	65°0	84°0	138°0	63°0	77°8	10°0	°648
16	°114	°116	°164	°117	°083	°076	°094	°143	°167	64°0	84°0	141°0	63°0	77°8	10°5	°699
17	°120	°158	°160	°100	°061	°057	°065	°073	°101	62°0	83°5	138°0	59°5	77°8	11°0	°601
18	°059	°105	°122	°062	°012	°026	°045	°087	°104	66°0	83°0	138°0	63°0	77°8	11°0	°624
19	°159	°189	°209	°193	°173	°184	°219	°231	°195	65°0	82°0	136°0	63°0	78°0	6°0	°664
20	°210	°249	°264	°217	°181	°169	°177	°195	°179	69°0	81°0	—	60°5	77°8	2°5	°697
21	°169	°219	°230	°199	°137	°151	°149	°189	°206	68°0	78°0	—	66°0	77°8	0°5	°671
22	°194	°225	°226	°166	°151	°137	°166	°185	°216	66°0	82°0	140°0	62°0	77°1	9°0	°509
23	°184	°220	°223	°211	°169	°139	°165	°168	°168	65°0	80°0	138°0	63°0	77°0	10°0	°613
24	°178	°197	°214	°185	°109	°083	°137	°155	°186	64°5	79°0	130°0	61°5	76°9	9°5	°671
25	°172	°186	°194	°165	°119	°104	°132	°158	°182	64°0	80°0	135°0	62°0	76°9	9°0	°678
26	°172	°202	°214	°148	°115	°107	°123	°157	°171	67°0	81°0	135°5	58°5	76°9	9°5	°626
27	°154	°186	°199	°169	°119	°121	°136	°174	°210	67°0	79°5	135°0	65°0	77°0	10°5	°592
28	°187	°212	°228	°184	°160	°136	°139	°182	°196	63°0	78°0	87°0	60°5	76°8	1°5	°687
29	°154	°185	°192	°167	°123	°067	°123	°142	°185	64°0	79°0	130°0	62°0	76°8	4°0	°633
30	°154	°168	°176	°122	°085	°105	°109	°137	°158	66°5	80°0	134°0	64°5	76°8	8°0	°680
31	30°124	30°184	30°204	30°169	30°133	30°156	30°168	30°189	30°194	67°0	81°0	141°0	63°0	76°8	10°5	°615
Mean	30°123	30°155	30°166	30°125	30°084	30°079	30°100	30°129	30°139	65°5	82°0	—	62°8	77°2	258°0	°651

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	66°5	68°5	73°0	70°5	76°0	74°0	80°0	72°5	80°0	73°0	78°8	72°0	75°0	70°0	76°0	74°0	73°0	70°4
2	67°0	68°4	72°2	70°0	77°0	72°5	82°8	72°5	83°0	73°0	79°0	73°5	76°5	72°5	74°5	72°2	72°6	70°2
3	66°4	68°0	73°2	70°6	79°0	73°0	82°0	73°2	84°5	72°0	79°0	73°0	75°0	72°0	74°0	70°6	72°4	69°5
4	67°0	66°0	74°8	70°8	81°0	74°0	80°8	74°5	81°0	72°0	79°8	74°0	77°5	72°0	74°8	70°8	72°0	69°4
5	69°5	69°0	73°5	71°2	75°8	72°8	77°0	72°0	80°0	72°0	78°0	72°0	73°5	69°0	71°5	67°2	70°5	67°2
6	65°0	64°8	68°5	66°8	81°0	75°0	79°0	73°8	80°0	75°0	79°2	73°6	74°0	70°0	73°6	70°2	70°3	63°0
7	66°5	66°0	70°0	68°2	81°6	74°0	84°0	72°0	81°8	72°2	77°0	72°0	74°0	68°8	72°0	68°0	70°0	67°0
8	68°0	67°0	72°0	70°5	79°0	73°8	81°0	74°6	81°0	74°0	80°5	74°0	74°5	70°0	73°2	70°0	72°4	69°6
9	68°0	67°0	72°5	70°2	78°8	72°5	81°0	74°0	81°0	73°0	78°0	70°5	73°5	69°0	71°2	67°8	70°0	66°8
10	65°0	63°8	72°8	69°6	79°0	72°0	79°0	72°8	80°0	74°8	79°8	74°8	75°0	71°0	73°0	69°0	71°4	68°0
11	65°0	64°0	71°0	68°2	81°0	73°2	81°5	72°0	84°5	73°0	81°0	73°0	75°5	70°0	73°0	68°8	72°0	68°0
12	67°0	66°2	71°0	69°0	77°4	73°0	80°0	73°0	81°0	73°8	79°8	71°5	75°0	69°0	73°5	70°0	71°0	68°4
13	65°4	64°9	75°0	74°0	82°8	76°0	81°0	73°0	80°5	74°5	78°4	71°0	75°0	70°0	73°2	70°0	72°0	69°4
14	70°2	67°0	76°0	70°0	79°0	70°0	80°0	68°0	78°0	69°2	75°0	69°0	72°0	68°0	71°0	67°0	70°0	66°8
15	67°8	67°0	76°0	72°0	81°0	74°0	80°2	72°0	80°8	73°0	81°0	73°0	76°0	70°5	73°0	68°2	71°6	67°0
16	66°0	65°0	70°8	68°8	80°2	74°3	82°0	74°0	78°4	72°0	80°2	69°0	73°0	68°0	70°6	66°2	71°6	67°4
17	62°8	62°0	71°0	67°5	80°5	74°2	81°0	71°0	80°0	69°0	78°8	70°0	73°0	67°5	72°5	66°8	70°6	66°0
18	66°2	65°0	74°0	70°0	80°0	72°5	82°0	72°0	82°0	72°0	79°0	71°0	74°5	68°6	74°0	68°0	73°0	67°6
19	67°0	66°0	75°0	71°0	80°0	73°0	76°5	71°0	70°0	67°0	70°0	66°8	71°0	66°5	72°0	67°0	70°0	67°0
20	71°2	68°0	74°0	70°2	78°5	73°8	77°0	72°0	75°8	72°0	74°5	70°2	72°2	69°0	71°3	68°0	71°2	68°0
21	69°0	68°0	71°8	69°8	72°0	70°3	76°0	71°0	75°0	69°8	74°0	69°0	71°5	68°0	70°2	67°0	69°0	66°8
22	67°0	63°8	75°0	68°2	70°0	67°0	79°0	67°5	80°2	70°4	74°6	67°6	71°5	67°0	71°0	67°0	70°0	67°0
23	66°0	65°0	72°0	69°0	78°0	69°2	77°9	70°2	79°0	72°0	77°0	70°5	73°0	68°0	72°0	68°4	70°3	67°8
24	66°0	65°0	71°0	69°0	79°0	73°0	76°0	71°0	78°5	71°0	78°0	69°8	73°8	68°6	73°0	67°0	71°6	66°8
25	66°0	65°0	69°0	68°0	72°2	70°6	77°9	71°9	79°0	71°0	79°0	71°0	74°0	68°2	72°0	68°0	70°0	67°8
26	68°0	67°0	79°0	74°0	79°0	72°5	79°2	74°0	80°2	70°0	78°0	71°0	74°0	68°0	72°0	68°0	70°0	67°8
27	67°8	67°0	73°0	71°0	79°0	69°0	79°0	70°0	78°8	68°8	77°5	69°0	73°0	69°0	69°0	64°5	68°0	64°0
28	65°0	64°5	68°0	66°5	77°6	72°2	74°0	70°6	73°0	70°0	72°0	69°8	72°0	68°5	70°0	68°0	69°0	67°4
29	65°0	64°5	70°0	68°2	75°0	73°0	76°0	70°0	77°0	72°2	74°0	70°0	72°0	69°0	72°0	68°2	71°0	67°5
30	68°0	67°0	71°0	70°0	79°5	72°8	78°0	72°0	76°2	71°0	74°5	71°0	72°0	69°0	71°0	68°5	71°0	67°8
31	67°5	65°5	74°0	70°0	79°8	70°5	80°0	74°0	80°0	71°0	78°0	69°2	73°5	68°0	72°0	67°5	71°0	67°2
Mean	66°9	65°7	72°6	69°6	78°7	72°3	79°4	71°7	79°4	71°6	77°5	70°9	73°7	69°1	72°3	68°4	71°0	67°7

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

JANUARY 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	Cir.	2	SE	1	—	—	—	—	—	—	—	—	Cum.	5	E	1	Cum.	6	E	2	Cum.	8	E	3
2	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	Cum.	4	E	2	Cum.	8	E	2
3	—	0	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	5	E	2	Cum.	8	E	1
4	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	E	2	Cum.	6	E	2	Cum.	6	E	1
5	—	—	—	—	Cir.-c.	3	S	0.5	—	—	—	—	C.N.	8	E	2	Cum.	5	E	2	Cum.	2	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	1	C.N.	9	E	2	C.N.	8	E	2
7	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	5	E	2	Cum.	7	E	4	Cum.	3	—	—
8	—	—	—	—	Cir.-c.	2	NW	0.3	—	—	—	—	C.N.	9	E	3	Cum.	4	E	4	Cum.	3	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	2	Cum.	6	E	3	Cum.	4	E	2
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	E	1	Cum.	5	E	3	Cum.	8	SSE	3
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	Cum.	5	E	1	Cum.	8	ESE	2
12	Cir.-c.	3	E	0.3	Cir.-c.	3	ESE	0.5	—	—	—	—	Cum.-s.	3	E	3	Cum.	5	E	3	Cum.	6	E	2
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	3	Cum.	7	SSE	3	Cum.	5	SE	2
14	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	3	C.N.	9	E	3	Cum.	2	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	9	E	2	Cum.	6	E	2	Cum.	3	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	7	NE	2	Cum.	2	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	ENE	1	Cum.	3	E	2	Cum.	1	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	2	Cum.	5	ESE	2	Cum.	9	NE	2
19	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	10	NNE	3	Nim.	10	NE	3	—	10	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	7	NE	4	Nim.	10	—	—	C.N.	9	NE	3
21	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	E	2	Nim.	10	E	4	Cum.	9	E	2
22	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	5	NE	2	Cum.	8	E	3	C.N.	8	E	3
23	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	2	C.N.	8	E	3	C.N.	9	E	2
24	—	—	—	—	Cir.-c.	4	SSE	0.5	—	—	—	—	C.N.	8	E	4	Cum.	5	E	3	Cum.	5	E	2
25	—	—	—	—	Cir.-c.	3	SE	1	—	—	—	—	C.N.	9	E	2	Cum.	5	E	1	Cum.	5	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	2	Cum.	6	E	3	Cum.	5	E	2
27	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	3	Cum.	4	E	3	Cum.	3	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	NE	2	Nim.	10	—	—	Cum.	5	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	8	E	3	Cum.	7	E	2
30	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	ENE	3	Cum.	7	E	3	Cum.	9	E	3
31	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	3	Cum.	6	E	4	Cum.	6	E	2
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.5	—	—	—	6.5	—	—	—	5.9	—	—

WIND.							Rain-fall.	REMARKS.
Day.	Direction and Force.					Vel.		
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	Calm 0	E by S 2	ESE 3	E 2	Calm 0	151	—	b. Fine with ∞ a. Very fine p.
2	Calm 0	SE 1	E 1	E 1	Calm 0	105	—	b ² n. Very fine day, with ∞.
3	Calm 0	Calm 0	E 1	Calm 0	Calm 0	72	—	b n. Fine day, with ∞.
4	W 1	Calm 0	E 2	Calm 0	Calm 0	69	—	b n. ∞ 6a. Fine, with ∞.
5	Calm 0	WSW 1	SE 1	NE 1	Calm 0	63	.09	● showers from E. a. Fine p.
6	W 1	WSW 1	Calm 0	E 1	Calm 0	91	—	∞ a. Fine, with ∞, till noon, then ● showers.
7	Calm 0	SE 1	E 2	E 1	Calm 0	86	.10	● showers a. Fine p., with ∞.
8	W 1	W 1	E 3	Calm 0	Calm 0	110	.04	● showers a. Ugly appearance in NE. noon. Fine p. ∞ ² .
9	Calm 0	W 1	ESE 2	ENE 1	ENE 1	102	—	● showers in S. 6a. Day fine, with ∞.
10	Calm 0	ESE 1	E 3	E 1	ENE 1	90	—	b ² n. Day fine, with ∞.
11	Calm 0	ESE 1	E 3	ENE 1	Calm 0	110	—	b a. ∞ a. Fine day, with ∞. Ugly appearance in SW. 6p.
12	W 1	W 1	E 2	E 1	Calm 0	70	—	∞ over the hills a. Day fine, with ∞. Ugly in SW. 6p.
13	Calm 0	ESE 3	ESE 3	ENE 1	Calm 0	145	—	b n. Fine day, with ∞. ● showers 6p.
14	E 1	E 3	ESE 3	Calm 0	Calm 0	210	.11	● n. ● showers in NE. 6a. Fine, with ∞ 8a.—2p., then ● in E.
15	W 1	WSW 1	ESE 3	E 2	Calm 0	110	.04	● n. ● in W. 6a. Fine, with ∞ ² , from 8a.
16	W 1	SSW 1	ESE 3	Calm 0	Calm 0	70	—	b n. ∞ 6a. Day fine, with ∞.
17	NW 1	W 1	ESE 2	E 1	Calm 0	210	—	b n. Day fine, with ∞.
18	W 1	S 1	ESE 2	NE 1	Calm 0	140	—	b n. Day very fine. ∞ from 4p.
19	W 1	NNW 0.5	NE 3	NE 2	NE 3	108	.09	Clouds low 6a. Dull a. Very squally p., with ● ² showers.
20	NE 2	E 2	ENE 3	E 1	Calm 0	183	.84	Ugly look in E. 6a. ● showers all day.
21	NE 1	ESE 1	E 2	E 1	Calm 0	154	.08	● ² showers 6a., clouds low. Steady ● from 8a.
22	NE 1	E 2	E 3	NE 2	NNE 3	125	.10	● showers 6a., and from 8p. Day fine, with ∞. Squally p.
23	W 1	E 3	ESE 5	ENE 1	N 2	190	.15	Ugly in SW. 6a. ∞ to S. 8a. Day fine, with ∞ ² . Gustly 10p.
24	Calm 0	SSE 2	ESE 3	E 1	Calm 0	190	.05	Clouds low and ugly 6a. Day fine, with ∞ ² . ● shower from E. noon.
25	W 1	SE 1	ESE 3	E 2	Calm 0	160	.08	● to E. and S. a. Clouds low 10a., then fine, with ∞.
26	Calm 0	SSE 1	ESE 3	ESE 2	E 1	180	—	∞ (mist) a. Day fine, with ∞.
27	W 1	ESE 3	ESE 3	NE 1	Calm 0	200	.04	● n. ● showers in S. ∞ (mist) 6a. Day fine, with ∞ ² .
28	W 1	NE 1	E 1	E 1	Calm 0	158.5	.11	∞ (mist) on hills. Clouds low. ● showers. Partial (9.15a.
29	Calm 0	SSE 0.5	ESE 3	Calm 0	ENE 2	77	.04	∞ (mist) on hills. Clouds low. ● ⁹ 8a. ● showers a. and p.
30	W 1	ESE 3	ESE 3	E 1	ENE 1	215	.10	● n. ∞ a. Clouds low. Squally, with ● showers p. Partial (5.30 p.
31	Calm 0	ESE 3	ESE 4	E 2	E 1	210	—	∞ (mist) on hills, ● in S. 6a. Day fine, with ∞ ² .
Mean	0.6	1.4	2.5	1.0	0.5	134.2	2.56	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

FEBRUARY 1887.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour
	Readings corrected and reduced to 32° Faht. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Tension.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 30°191	ins. 30°224	ins. 30°252	ins. 30°206	ins. 30°161	ins. 30°179	ins. 30°189	ins. 30°218	ins. 30°194	68°0	80°0	130°5	62°0	76°8	hours. 10°5	ins. °655	
2	°197	°220	°231	°173	°126	°126	°147	°188	°153	63°0	81°0	134°5	61°0	76°8	10°0	°615	
3	°182	°197	°214	°169	°121	°124	°139	°163	°189	66°0	82°0	117°0	62°0	76°5	7°0	°620	
4	°150	°192	°210	°161	°128	°134	°179	°220	°171	60°0	80°0	137°0	65°0	76°5	4°0	°646	
5	°220	°278	°308	°281	°231	°214	°239	°266	°238	68°0	80°0	90°0	65°5	76°5	10°0	°646	
6	°256	°289	°309	°270	°235	°226	°234	°274	°259	67°0	81°0	133°0	62°5	76°5	10°5	°550	
7	°265	°296	°276	°248	°218	°212	°228	°244	°270	67°0	81°0	134°5	63°0	76°3	10°5	°664	
8	°262	°289	°300	°248	°215	°204	°220	°254	°270	65°0	83°0	137°0	61°5	76°1	10°5	°541	
9	°252	°262	°254	°223	°195	°194	°217	°216	°223	63°0	82°0	136°0	60°0	76°1	9°5	°541	
10	°212	°234	°258	°198	°155	°161	°174	°197	°221	63°0	82°0	130°0	61°5	76°0	10°0	°823	
11	°176	°205	°225	°179	°152	°146	°186	°209	°194	62°0	80°0	110°0	59°0	76°0	4°0	°533	
12	°202	°249	°244	°215	°151	°128	°159	°179	°218	60°5	78°0	115°0	57°0	75°9	7°0	°673	
13	°206	°225	°234	°196	°140	°116	°136	°184	°251	62°5	79°0	131°0	59°0	75°9	10°5	°507	
14	°178	°218	°226	°181	°159	°147	°162	°189	°214	65°0	82°0	—	62°5	75°9	7°0	°664	
15	°159	°185	°178	°152	°134	°110	°134	°146	°161	65°0	82°0	114°0	61°0	75°9	6°0	°590	
16	°138	°148	°162	°126	30°061	°044	°072	°095	°115	60°0	80°0	135°5	56°5	75°8	7°0	°630	
17	°063	°090	°100	°023	29°994	°024	°036	°063	°084	64°5	83°0	139°0	61°5	75°8	10°5	°626	
18	°067	°117	°132	°079	30°020	°024	°034	°069	°083	63°0	82°5	138°0	60°5	76°0	11°0	°578	
19	°086	°135	°160	°120	°055	°046	°085	°127	°125	62°0	81°0	147°0	60°0	76°0	10°0	°639	
20	°138	°169	°179	°153	°119	°119	°136	°160	°176	65°0	82°0	108°0	61°0	76°2	7°0	°584	
21	°162	°192	°211	°205	°123	°126	°173	°194	°191	63°0	82°0	102°0	61°5	76°2	4°0	°576	
22	°217	°257	°281	°231	°195	°176	°149	°216	°199	63°0	81°0	132°0	60°0	76°2	8°0	°655	
23	°242	°274	°281	°222	°187	°186	°205	°215	°222	63°0	83°0	134°0	60°5	76°2	10°0	°515	
24	°205	°240	°250	°222	°174	°156	°183	°218	°237	61°5	82°0	135°0	59°0	76°2	11°0	°646	
25	°205	°240	°231	°208	°162	°164	°189	°237	°222	60°0	82°0	137°0	58°0	76°2	9°5	°646	
26	°220	°266	°274	°244	°169	°172	°184	°214	°233	60°5	80°0	130°5	58°0	76°2	11°0	°609	
27	°217	°244	°228	°190	°131	°126	°176	°219	°228	62°0	80°0	137°0	59°5	76°2	9°5	°598	
28	30°205	30°221	30°212	30°161	30°117	30°117	30°132	30°142	30°156	64°0	82°0	134°5	62°0	76°3	10°5	°641	
Mean	30°188	30°220	30°230	30°189	30°144	30°139	30°161	30°190	30°196	64°0	81°2	—	60°7	76°2	246°0	°618	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.	
1	68°0	63°0	77°0	70°0	76°2	70°6	77°2	71°0	80°0	70°0	75°9	68°0	71°2	66°0	69°2	65°5	68°6	65°0
2	64°0	63°0	70°5	68°2	78°4	70°5	77°4	70°0	79°0	72°0	78°2	68°8	71°5	68°0	71°2	68°0	70°0	67°6
3	67°5	67°0	71°6	69°2	77°5	70°0	77°0	70°0	75°0	69°2	74°0	68°0	72°0	68°0	72°0	68°0	70°0	67°5
4	71°0	67°0	75°0	70°0	77°0	73°2	79°0	71°5	75°4	69°4	74°0	68°5	70°0	68°0	70°0	68°0	69°0	67°5
5	70°0	66°7	76°0	68°0	77°5	68°5	73°0	69°2	76°5	72°5	76°5	69°0	72°5	67°5	72°0	67°0	71°0	66°8
6	70°6	65°0	76°0	69°0	79°0	68°0	79°8	69°0	78°5	70°0	78°0	68°2	73°8	68°0	72°0	67°0	70°6	66°0
7	69°0	65°2	77°8	69°0	78°0	69°0	78°5	74°8	76°0	70°5	75°4	68°0	72°5	68°0	69°0	66°0	67°6	65°0
8	65°0	64°5	71°0	69°0	80°0	70°0	80°5	69°0	79°0	69°0	77°0	68°5	73°0	67°0	72°0	66°5	71°0	66°2
9	64°0	63°5	73°0	69°2	78°2	68°2	79°0	68°5	78°5	67°2	76°0	66°8	72°0	67°0	71°0	65°0	69°6	64°5
10	64°4	64°0	68°4	67°4	72°0	70°0	77°4	73°0	80°0	70°8	74°5	67°0	71°5	66°0	70°0	65°0	69°0	64°5
11	62°4	61°4	69°0	66°5	76°0	69°0	77°0	67°5	76°0	67°2	75°0	67°6	71°2	67°0	70°2	66°0	69°0	65°5
12	61°0	60°0	67°0	66°0	75°0	71°8	71°0	69°0	76°8	70°5	77°0	69°8	72°0	66°8	71°0	66°0	69°0	65°0
13	65°0	64°0	70°0	68°0	77°0	72°0	78°0	67°0	78°8	71°0	77°2	70°0	72°0	66°0	70°5	66°5	69°0	65°4
14	65°5	64°5	76°0	70°5	76°0	69°2	74°0	70°0	75°0	69°8	75°0	69°0	69°8	66°8	69°8	66°0	68°6	65°4
15	67°0	65°0	71°0	68°5	77°4	69°5	76°5	69°0	73°0	68°0	74°2	68°0	70°2	65°5	69°0	65°0	67°8	64°6
16	61°5	61°0	67°8	65°8	78°0	69°5	75°9	71°0	78°0	71°8	75°5	70°0	72°5	67°4	70°0	66°5	68°5	64°6
17	65°0	64°2	72°0	69°0	77°0	71°0	81°9	72°0	82°0	69°2	77°0	71°0	74°0	69°5	71°5	68°0	70°0	67°5
18	64°0	63°2	72°0	68°8	78°8	72°0	82°2	70°8	81°0	69°2	78°9	69°9	73°2	68°2	71°0	69°0	70°0	68°4
19	63°0	62°0	71°8	69°0	79°0	72°0	78°2	71°0	79°2	71°0	77°5	72°0	73°2	68°5	69°5	66°0	68°0	65°2
20	67°0	65°5	73°0	68°0	80°2	65°0	77°0	69°0	75°5	69°0	75°0	66°0	71°5	69°0	67°8	62°8	66°4	63°0
21	64°4	63°4	72°0	68°5	81°0	74°5	77°0	63°8	76°0	69°0	78°0	69°5	74°2	66°2	69°5	66°5	68°4	66°0
22	64°0	63°5	70°5	67°5	79°0	73°0	77°2	71°0	79°0	72°0	77°8	70°0	73°0	67°2	70°5	65°5	69°0	64°2
23	64°0	63°0	68°5	66°3	80°0	75°0	77°4	70°0	78°0	70°0	76°0	67°0	71°5	65°2	70°0	63°2	69°4	64°2
24	62°0	61°2	69°0	67°6	79°0	71°8	79°0	71°5	79°0	73°0	75°5	73°0	72°0	65°5	68°8	64°8	67°0	63°4
25	61°0	60°0	68°0	65°0	80°0	72°0	79°0	71°5	78°2	71°0	75°0	68°8	71°0	65°5	69°0	63°5	67°5	64°0
26	61°5	60°0	72°0	67°5	74°5	67°5	78°5	70°8	68°5	77°0	68°0	72°0	64°6	71°0	64°5	70°0	65°0	63°0
27	63°0	62°0	74°8	70°0	78°0	70°0	79°0	70°2	78°8	68°9	77°0	70°0	73°5	67°0	72°0	63°0	71°4	67°2
28	65°0	64°0	74°8	70°0	78°5	72°0	80°0	71°8	81°0	68°0	79°0	68°2	74°0	65°0	70°0	65°0	69°0	64°2
Mean	65°0	63°5	72°0	68°3	77°8	70°5	77°9	70°2	77°9	70°0	76°4	68°9	72°2	67°0	70°3	66°2	69°1	65°5

Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.—SANCHEZ, SAN DOMINGO.

FEBRUARY 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	4	Cum.	6	E	4	Cum.	3	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	E	3	Cum.	7	E	3	Cum.	10	E	2
3	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	NE	3	C.N.	8	E	3	C.N.	9	E	3
4	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	ENE	3	Cum.	8	E	3	Cum.	9	E	3
5	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	2	Nim.	10	—	3	Cum.	8	E	2
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	2	Cum.	8	E	3	Cum.	6	E	2
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	E	4	Cum.	8	E	4	Cum.	3	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	7	E	3	Cum.	7	E	3	Cum.	3	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	E	3	Cum.	7	E	3	Cum.	5	E	3
10	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	8	ENE	2	Cum.	3	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	ESE	2	Cum.	10	E	3	Cum.	5	E	2
12	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	3	E	2	C.N.	8	E	3	Cum.	4	E	2
13	Cir.-c.	3	ESE	1	Cir.-c.	4	SE	1	—	—	—	—	Cum.	2	E	3	Cum.	3	E	3	—	5	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	E	2	C.N.	10	E	2	—	5	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	7	E	2	C.N.	9	E	3	—	4	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	—	—	Cum.	9	E	2	—	7	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.	5	E	2	Cum.	4	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.	4	E	2	Cum.	2	—	—
19	—	—	—	—	Cir.-s.	2	NW	0.5	—	—	—	—	Cum.	4	E	4	Cum.	4	E	3	Cum.	3	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	NE	4	Cum.	9	NE	3	Cum.	2	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	NE	3	Cum.	9	E	3	Cum.	6	E	2
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	3	E	3	Cum.	6	E	3	Cum.	4	E	2
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	E	3	Cum.	5	E	2	Cum.	2	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	3	Cum.	5	E	2	Cum.	1	—	—
25	Cir.-s.	1	SSW	0.5	Cir.	2	SW	1	—	—	—	—	Cum.	2	E	3	Cum.	5	E	3	Cum.	2	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	E	3	Cum.	5	E	4	Cum.	2	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	E	2	Cum.	5	E	3	Cum.	2	—	—
28	—	—	—	—	Cir.	2	SSW	1	—	—	—	—	Cum.-s.	9	E	2	Cum.	4	E	3	Cum.	4	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	5.9	—	—	—	6.9	—	2.9	—	4.4	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	E 1	ESE 2	E 2	NE 1	Calm 0	200	.24	Fine day, but with ∞ and passing ● showers.
2	NW 1	W 2	E 2	NE 1	Calm 0	125	—	☼ ⁰ (mist) on swamp and hills a. Day fine, with ∞ ² . Overcast 8p.
3	W 1	ENE 2	E 2	ENE 1	E 1	130	.06	☼ ⁰ (mist) on swamp a. Day dull and overcast, with ∞ and ● showers.
4	ENE 1	E 2	E 2	ENE 1	E 1	175	.18	Very dark and ugly in S. and W. 6a. ☾ 8a. Day overcast, with ∞ ● showers.
5	ENE 2	ENE 2	E 1	ENE 2	ENE 2	155	—	Day fine, with ∞ and passing ● showers. Complete ☾ 4p.
6	ENE 2	E 3	E 3	E 1	ENE 1	184	—	Day fine, with ∞.
7	ENE 2	E 2	ESE 2	NE 1	Calm 0	200	.10	Day fine, with ∞. Complete ☾ 7p.
8	W 1	E 2	ENE 2	NNE 2	NE 2	123	.14	☼ ² over swamp 6a. Fine day, with ∞. Gusty at 8p.
9	W 1	E 2	NE 2	NE 1	NNE 2	125	—	☼ ⁰ (mist) over swamp 6a. Overcast a., with ∞. Fine p.
10	Calm 0	Calm 0	E 2	ENE 2	NE 1	137	.06	☼ ⁰ (mist) 6a. Dull and overcast, with low clouds a. Fine p.
11	N 1	ENE 2	E 2	ENE 1	Calm 0	139	.02	p n. ☼ ² on swamp 6a. Day dull and overcast.
12	Calm 0	Calm 0	E 2	ENE 2	Calm 0	117	.04	p n. ☼ ² on swamp and hills 6a. Dull and overcast. Very fine from 4p.
13	Calm 0	SSE 1	ESE 3	Calm 0	Calm 0	139	—	p n. ☼ ² on swamp 6a. Day very fine, with ∞.
14	W 0.5	NE 2	E 1	N 1	Calm 0	111	—	☼ ⁰ (mist) on swamp 6a. Fine, with ∞, till 10a., then dull and overcast.
15	Calm 0	ESE 3	ESE 2	Calm 0	Calm 0	112	.14	☼ ⁰ (mist) on swamp and hills 6a. Day dull and overcast, low clouds. Very fine 6p.
16	Calm 0	SE 1	ESE 3	E 1	ENE 1	110	—	p n. ☼ ² on swamp 6a. Dull and overcast. Red sunset. ☾ 5.15p.
17	Calm 0	SSE 1	ESE 2	E 1	Calm 0	150	—	p n. ∞ a. Day very fine.
18	Calm 0	SSE 1	ESE 2	ENE 1	Calm 0	110	—	p n. ☼ ² (mist) on swamp 6a. Day very fine.
19	Calm 0	sebys 1	ESE 3	Calm 0	Calm 0	115	—	☼ ² on swamp 6a.—8a.. Fine day, with ∞.
20	Calm 0	ESE 1	E 2	NNE 1	NE 1	140	—	Fine, with ∞, till 10a., and from 4p. Overcast early p.
21	WNW 1	SW 1	ESE 2	E 2	Calm 0	145	—	Overcast and threatening most of day.
22	W 1	Calm 0	E 4	NE 1	NE 1	120	.25	● showers a. Fine, with ∞, p.
23	Calm 0	S 1	ESE 4	E 1	E 1	156	—	p n. Fine 6a. Dull 8a.—noon. Fine from 2p. ∞ all day.
24	W 1	S 1	ESE 3	ENE 1	Calm 0	234	—	p n. Fine most of day, with ∞.
25	WNW 1	SSW 1	ESE 3	E 1	Calm 0	163	—	p n. Dull a. Fine p. ∞ all day.
26	Calm 0	Calm 0	ESE 3	ENE 1	Calm 0	155	—	p ⁰ n. Fine most of day, with ∞.
27	Calm 0	ESE 2	ESE 3	E 2	Calm 0	155	—	p n. Fine all day, with ∞.
28	Calm 0	SE 1	E 2	E 1	Calm 0	315	—	Dull 6a. ☼ ⁰ (mist) on N. hills 8a. Day fine, with ∞.
Mean	0.6	1.4	2.4	1.1	0.5	151.4	1.23	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above mean Sea Level, 50 feet.

MARCH 1887.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Faht. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Noon.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.				
1	ins. 30°167	ins. 30°189	ins. 30°178	ins. 30°148	ins. 30°112	ins. 30°102	ins. 30°116	ins. 30°142	ins. 30°170	62°0	84°0	145°0	60°0	76°4	hours. 10°0	ins. °584	
2	°128	°175	°176	°160	°138	°142	°162	°186	°202	67°0	78°5	122°0	65°0	76°6	9°5	°539	
3	°162	°203	°198	°176	°129	°130	°139	°205	°215	66°0	80°0	107°0	62°5	76°7	9°0	°491	
4	°182	°214	°212	°190	°144	°150	°167	°192	°197	62°5	81°0	143°0	59°5	76°5	10°0	°477	
5	°210	°247	°262	°213	°176	°181	°194	°235	°214	62°5	80°0	137°0	60°0	76°7	5°0	°482	
6	°214	°250	°234	°223	°191	°189	°216	°236	°220	61°5	80°0	136°0	60°0	76°7	6°5	°512	
7	°211	°251	°244	°202	°166	°159	°176	°197	°211	60°0	80°0	140°0	58°0	76°6	6°0	°592	
8	°174	°204	°226	°169	°122	°128	°152	°165	°176	65°0	79°0	137°0	60°0	76°5	10°5	°545	
9	°173	°196	°213	°173	°123	°128	°168	°188	°212	60°5	82°0	146°0	58°0	76°6	10°5	°639	
10	°153	°185	°180	°130	30°074	30°032	30°042	°077	°067	60°0	80°0	137°0	56°5	76°6	11°0	°539	
11	°033	°069	°072	°020	29°947	29°938	29°969	°009	°030	61°5	84°0	138°0	57°5	76°6	10°5	°566	
12	°008	°049	°052	°013	29°990	°974	30°000	°061	°088	63°0	88°0	144°0	59°5	76°7	10°0	°562	
13	°007	°076	°106	°044	30°000	°992	30°017	°044	°046	65°5	85°0	144°0	65°5	77°0	7°5	°558	
14	30°036	°053	°039	30°013	29°960	°944	29°955	30°002	°037	68°0	82°0	133°0	67°5	77°1	9°0	°648	
15	29°999	°016	30°011	29°970	°908	°910	°938	29°992	30°031	71°0	87°0	142°0	69°0	77°5	10°5	°622	
16	°986	30°008	29°999	°962	°894	°889	°932	°961	29°983	67°0	87°0	139°5	65°0	77°9	8°0	°633	
17	°949	29°972	°983	°946	°901	°844	°890	°910	°923	67°5	89°0	145°0	66°5	78°1	10°5	°701	
18	°916	°948	29°948	°933	°870	°852	°890	°890	°961	70°0	87°0	127°0	70°0	78°3	6°0	°741	
19	29°954	29°995	30°003	29°988	29°924	29°936	29°971	29°999	29°998	68°0	84°0	—	66°5	78°2	1°5	°648	
20	30°009	30°048	30°069	30°046	30°009	30°000	30°020	30°055	30°062	67°5	84°0	—	66°5	78°0	8°0	°639	
21	°081	°108	°127	°119	°073	°033	°057	°090	°117	71°5	80°0	—	70°5	78°0	10°0	°592	
22	°104	°123	°145	°101	°047	°042	°074	°107	°119	66°0	82°0	—	65°0	78°0	9°5	°744	
23	°104	°129	°132	°128	°043	°034	°041	°072	°097	68°0	83°0	—	65°0	78°0	10°5	°680	
24	°104	°150	°155	°124	°064	°034	°056	°082	°099	67°0	87°0	—	65°0	78°2	11°5	°657	
25	°098	°186	°139	°114	°068	°018	°051	°073	°099	66°0	83°0	—	64°0	78°4	11°0	°689	
26	°089	°109	°122	°102	°063	°030	°074	°109	°121	68°0	83°0	—	66°0	78°8	11°0	°689	
27	°127	°139	°136	°119	°082	°056	°089	°098	°119	66°5	82°0	—	65°0	78°8	11°5	°721	
28	°086	°103	°129	°117	°043	°018	°029	°087	°099	68°0	82°5	—	65°0	79°0	10°5	°601	
29	°080	°121	°121	°104	°035	°018	°027	°058	°085	68°5	83°0	—	67°0	79°0	10°0	°708	
30	°088	°109	°117	°114	°054	°038	°049	°083	°082	69°5	83°0	—	66°0	79°0	10°5	°628	
31	30°090	30°098	30°113	30°070	30°041	30°017	30°032	30°079	30°077	65°0	82°0	—	62°5	79°2	11°0	°639	
Mean	30°088	30°122	30°124	30°095	30°045	30°031	30°055	30°087	30°102	65°8	83°0	—	63°7	77°6	286°5	°615	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	62°8	62°0	73°0	68°0	79°0	70°0	81°0	70°5	78°2	69°8	77°0	69°0	73°0	68°0	71°0	68°0	70°0	67°5
2	69°2	66°2	78°5	70°0	76°5	67°0	75°2	67°0	75°0	65°5	74°0	64°0	69°2	63°0	68°0	63°0	67°4	63°0
3	66°0	60°0	75°2	64°0	76°5	64°5	76°8	66°0	80°0	67°0	76°2	64°8	72°5	64°8	67°8	65°8	67°0	65°2
4	63°0	62°0	73°0	68°2	76°8	68°6	78°0	66°0	78°8	68°5	76°0	66°0	72°0	65°8	71°0	66°0	70°0	65°6
5	63°4	62°4	74°0	68°4	79°0	67°5	77°5	66°0	77°8	69°0	73°7	67°8	70°0	65°0	69°8	66°2	68°0	65°4
6	63°8	62°8	71°0	67°8	74°0	69°8	77°5	67°0	76°5	70°0	77°0	66°0	70°8	64°8	68°0	64°0	67°0	63°5
7	60°5	59°5	69°0	66°0	75°0	69°0	78°0	69°7	77°5	69°0	77°0	68°9	70°8	65°2	70°0	65°0	69°0	64°6
8	65°0	62°2	75°0	66°8	78°4	68°4	78°0	68°2	78°0	68°9	77°8	67°0	71°0	65°8	69°0	64°2	68°0	63°4
9	61°2	60°2	70°0	66°5	73°2	70°0	78°2	71°0	78°0	70°0	75°5	68°0	70°0	65°0	67°2	63°0	67°5	62°4
10	61°0	60°0	73°0	67°0	77°6	67°4	79°2	68°5	77°5	67°5	76°0	66°0	70°0	64°5	68°5	63°0	67°0	62°6
11	61°8	60°2	72°0	67°2	77°7	68°0	82°0	70°4	81°5	70°4	77°0	69°0	72°2	67°5	70°8	65°8	69°0	64°6
12	63°0	62°0	74°4	68°8	83°2	71°8	86°8	71°9	86°0	71°2	75°8	68°5	74°0	68°0	73°0	68°0	72°0	67°5
13	67°0	65°0	75°0	70°0	81°0	73°0	83°0	70°5	80°0	72°0	77°0	71°0	73°0	68°2	72°5	68°0	70°0	67°4
14	69°2	68°2	76°5	72°0	76°0	70°2	78°0	71°2	80°0	73°0	75°8	74°2	73°0	70°0	72°0	68°0	71°0	67°5
15	73°5	68°5	79°0	71°0	82°5	72°5	85°0	73°0	85°0	71°5	82°9	72°0	77°0	70°0	74°0	70°8	73°4	70°0
16	68°0	67°0	76°0	72°5	82°0	72°9	84°0	73°0	85°0	74°0	80°2	72°6	74°2	69°5	73°0	70°6	71°3	70°0
17	69°0	68°0	75°2	72°5	81°2	74°0	84°0	74°8	87°0	73°0	84°8	75°0	81°5	72°8	79°0	73°0	75°5	73°0
18	71°8	70°8	73°6	72°0	84°0	75°8	82°0	75°0	79°2	73°0	71°2	69°7	71°0	70°0	70°8	69°8	70°2	69°0
19	69°0	68°0	72°0	70°3	76°3	73°3	79°8	71°8	80°5	72°0	76°2	72°2	72°0	70°0	72°0	71°0	72°0	71°0
20	69°8	68°2	70°0	68°5	80°5	74°0	83°5	73°0	82°0	73°5	79°0	70°0	75°0	69°0	74°0	69°4	73°0	69°0
21	72°8	68°8	74°0	68°5	76°8	70°8	79°0	70°0	79°0	72°0	77°5	70°2	73°0	69°0	72°0	68°0	72°0	68°0
22	67°5	66°5	72°0	70°0	79°0	74°8	80°3	74°4	81°2	75°5	78°2	73°8	76°0	72°2	74°2	70°5	75°0	72°0
23	68°0	67°0	76°0	72°5	79°5	72°2	81°2	73°2	82°0	72°0	81°0	73°0	75°4	70°0	77°0	70°0	74°0	70°0
24	67°8	67°0	76°0	71°8	79°0	72°2	83°5	73°5	87°0	74°0	82°0	75°0	76°0	72°0	74°0	70°0	73°0	69°0
25	67°2	66°2	78°5	74°0	81°5	74°6	80°0	73°0	82°0	72°5	81°0	73°0	76°0	70°0	73°5	69°0	74°0	70°6
26	70°0	68°0	73°0	70°0	80°0	74°2	81°0	73°4	82°0	74°0	80°9	74°0	78°0	70°2	75°0	71°0	75°0	71°0
27	69°0	68°0	72°0	69°5	80°5	74°5	80°8	74°0	81°4	74°0	80°2	73°0	76°0	70°0	74°0	70°0	74°0	70°0
28	72°0	69°0	74°5	71°0	76°5	72°0	81°0	71°0	81°2	72°4	79°2	72°0	77°5	70°4	72°0	70°5	73°0	71°2
29	70°0	69°0	76°2	72°5	79°0	70°0	81°5	74°0	81°0	74°0	79°9	71°9	76°0	71°0	74°5	70°0	74°0	71°0
30	72°0	70°0	76°0	72°0	82°0	75°0	79°0	71°0	83°0	75°0	80°0	72°0	76°0	71°0	73°0	69°0	71°2	68°2
31	68°0	67°0	72°0	69°6	80°0	74°0	80°5	71°9	80°6	73°0	79°0	72°0	76°5	69°5	72°0	67°0	71°9	67°0
Mean	67°2	65°5	74°1	69°6	78°8	71°4	80°5	71°1	80°8	71°5	78°1	70°3	73°8	68°5	72°0	68°0	71°1	67°2

Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.—SANCHEZ, SAN DOMINGO.

MARCH 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	—	—	Cum.	8	NE	2	C.N.	9	NE	3
2	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	8	NE	3	Cum.	8	NNE	1
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	NE	3	Cum.	8	NE	3	Cum.	7	NE	2
4	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	NE	1	Cum.	5	NE	2	Cum.	9	E	2
5	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	NE	4	C.N.	10	NE	3	Cum.	9	NE	2
6	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	8	ENE	3	Cum.	4	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	E	3	C.N.	8	E	3	Cum.	2	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	E	2	Cum.	5	E	2	Cum.	2	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	—	—	Cum.	6	E	3	Cum.	3	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.	4	E	2	Cum.-s.	1	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	Cum.	4	E	2	Cum.	3	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	5	NW	2	Cum.	6	N	2
13	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	WNW	2	C.N.	9	W	2	C.N.	10	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	SSW	4	Cum.	7	S	1	Cum.	3	S	2
15	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	S	1	Cum.	6	W	2	C.N.	9	W	1
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	SW	3	Cum.	5	SW	3	C.N.	7	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	SSW	2	Cum.	10	SW	3	C.N.	9	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	Cum.	9	SSW	2	Cum.	7	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	C.N.	10	—	—	C.N.	9	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	N	2	Cum.	7	W	1	—	6	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	W	1	Cum.	7	ENE	3	Cum.	4	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	E	4	Cum.	6	SW	1	Cum.	1	—	—
23	Cir.	2	W	0.5	Cir.	2	W	1	—	—	—	—	Cum.-s.	3	E	2	Cum.	5	E	2	Cum.	4	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	SE	1	Cum.	4	ESE	2	Cum.	5	E	1
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	SE	3	Cum.	5	—	—	Cum.	4	E	1
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	3	Cum.	5	E	3	Cum.	6	E	2
27	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	E	4	Cum.	6	E	3	Cum.	8	E	2
28	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	ESE	4	Cum.	6	ESE	3	C.N.	9	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	SE	3	Cum.	5	SW	1	Cum.	8	SW	1
30	—	—	—	—	Cir.-c.	2	SW	1	—	—	—	—	Cum.-s.	6	E	1	Cum.	6	E	1	Cum.	4	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	4	Cum.	5	E	3	Cum.	5	E	2
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.0	—	—	—	6.5	—	—	—	5.8	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	W 1	NW 1	NNE 1	NNE 2	NNE 2	240	—	☁ n. Overcast most of day. ☁ 3p.
2	NNE 1	NNE 2	NNE 2	NNE 1	Calm 0	175	.18	☁ n. ☁ 8a. Overcast most of day, with ☁ showers. Squally.
3	NNE 1	E 2	ENE 1	NE 1	Calm 0	140	—	Dull and overcast most of day.
4	Calm 0	E 0.5	NNE 2	NE 1	NE 1	135	—	Very fine day. Complete ☁ 5p. Overcast from 8p.
5	W 1	NEBYN 2	NNE 2	NNE 1	Calm 0	143	.04	☁ n. Fine a. Overcast p., with ☁ showers.
6	W 1	E 2	E 3	ENE 1	Calm 0	146	.05	☁ (mist) 6a.—8a. Squally ☁ showers. ☁ p. Very fine 8p.
7	W 1	S 1	ESE 3	ENE 1	Calm 0	136	.08	Dark in NE. 6a. ☁ in the S. 8a. Squally ☁ showers 2p., then fine with ☁.
8	Calm 0	ESE 2	ESE 3	NNE 1	Calm 0	176	.06	☁ (mist) on swamp 6a. Day fine, with ☁. Very pretty sunset.
9	W 1	SSE 1	ESE 3	Calm 0	Calm 0	125	.02	☁ n. ☁ (mist) on swamp 6a. Day very fine.
10	W 1	SSE 1	ESE 2	Calm 0	Calm 0	145	—	☁ n. ☁ (mist) on swamp 6a. Day very fine.
11	Calm 0	ESE 1	ESE 3	E 1	Calm 0	120	—	☁ n. Day very fine.
12	Calm 0	SbyE 1	N 2	N 3	Calm 0	90	—	☁ n. Day very fine.
13	W 1	W 1	N 2	NNE 2	N 2	75	.24	☁ 6a. Fine, with ☁ a. Overcast p. ☁ (mist) on N. hills 4p. Clouds low 6p.
14	Calm 0	E 1	ESE 2	E 1	NNE 2	115	.13	☁ (mist) on hills 6a. Dull, with low clouds, till 2p., then very fine.
15	SbyE 1	ESE 1	ESE 1	N 2	Calm 0	160	—	Fine till 4p., then overcast. [passing overhead from W.—E. 8.30p.—8.50p., then ☁.
16	Calm 0	Calm 0	ESE 1	Calm 0	Calm 0	80	.02	☁ n. ☁ (mist) 6a. Very fine 8a.—2p., then dull. ☁ in NNW. 5.30p. ☁
17	W 1	Calm 0	Calm 0	S 2	Calm 0	75	.37	☁ on swamp, clouds low, 6a. Fine till noon, then overcast. ☁ in W. and NW. 8p.
18	Calm 0	Calm 0	S 2	Calm 0	Calm 0	100	.30	☁ n. Dull a. ☁ 2 in NW. 3p. At 3.40p. ☁ here "with icicles as large"
19	Calm 0	WbyS 1	NNE 2	Calm 0	Calm 0	100	1.33	☁ (mist) on swamp 6a. Overcast, dull, and close all day. Distant ☁ 2p.
20	W 1	S 1	N 2	NNE 3	—	75	.41	Dull and overcast a. Fine, with ☁ 10a.—4p. Fine and fresh 8p.
21	ESE 1	Calm 0	ESE 3	ESE 1	E 1	155	—	Dull and overcast a., with ☁ in the S. Fine, with ☁ 2p.
22	W 1	SW 1	ESE 2	E 2	E 1	160	—	☁ on swamp 6a. Fine all day, with ☁.
23	W 0.5	SSE 1	ESE 2	ESE 1	W 2	175	—	☁ n. ☁ (mist) on swamp 6a. Day fine, with ☁ till 2p., then clear.
24	Calm 0	ESE 1	ESE 1	E 2	E 1	155	—	☁ n. Day very fine from 8a.
25	W 1	SE 1	ESE 3	ENE 1	E 1	149	—	☁ n. Very fine day.
26	W 1	ESE 1	ESE 2	E 2	E 1	190	—	☁ (mist) on swamp 6a. Dull 8a., with ☁ showers in E. Very fine from 10a.
27	W 1	ESE 1	ESE 2	E 1	E 1	205	—	☁ n. ☁ 2 on swamp 6a. Clouds low on N. hills 10a. Day fine, with ☁.
28	W 1	ESE 1	EbyS 2	E 1	ENE 1	240	—	☁ on swamp 6a. Threatening in NE. 10a. Very fine, with ☁, noon—4p. ☁ in SE.
29	Calm 0	E 2	E 2	E 1	Calm 0	210	.34	☁ n. ☁ in E. 6a. Clouds low on N. hills 8a. Day fine from 10a. ☁ 6p. Ugly 10p.
30	ENE 1	SbyE 1	ESE 2	ENE 1	Calm 0	180	—	☁ n. Very fine all day.
31	W 1	sbyS 1	E 3	ENE 1	Calm 0	95	—	☁ n. ☁ on swamp 6a. Day very fine.
Mean	0.7	1.0	2.0	1.2	—	144.0	3.57	

* 18th continued,—as hazel nuts," lasting till 4p. Distant T in E. 4p. During the storm the wind went round the compass. A second ☁ 2 2 passed overhead from NW. 4.30p.—5.15p.

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

APRIL 1887.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Faht. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 30°080	ins. 30°093	ins. 30°111	ins. 30°088	ins. 30°012	ins. 29°997	ins. 30°112	ins. 30°135	ins. 30°081	64°0	81°5	—	62°0	79°1	hours. 11°5	ins. °582	
2	°092	°121	°129	°118	°062	30°038	°107	°111	°113	69°0	86°0	—	65°0	79°1	11°5	°646	
3	°150	°185	°180	°123	°100	°073	°113	°136	°168	68°0	87°0	—	62°0	79°2	7°0	°675	
4	°157	°183	°169	°124	°083	°070	°082	°119	°139	66°0	82°0	—	63°0	79°5	10°5	°675	
5	°110	°149	°154	°142	°088	°054	°073	°123	°139	64°5	83°0	—	61°5	79°6	4°0	°628	
6	°116	°142	°158	°156	°102	°094	°112	°124	°144	65°5	83°0	—	63°5	79°6	7°0	°799	
7	°135	°162	°168	°153	°058	°070	°099	°123	°142	62°0	83°0	—	59°5	79°6	10°5	°764	
8	°140	°147	°167	°155	°101	30°050	30°053	°074	°096	64°0	83°0	—	60°5	79°5	7°0	°675	
9	30°061	°082	°088	30°071	30°000	29°971	29°992	30°010	30°019	65°0	84°0	—	62°0	79°6	8°0	°628	
10	29°993	30°009	°013	29°987	29°940	°918	°941	29°977	29°985	71°5	85°0	—	62°0	79°9	6°0	°666	
11	29°954	29°982	°032	30°010	29°966	29°952	29°969	30°001	30°048	71°0	89°0	—	69°5	80°0	7°0	°648	
12	30°060	30°102	°088	°056	30°020	30°004	30°019	°051	°071	71°0	87°0	—	67°0	80°1	8°0	°664	
13	°065	°117	°106	°074	30°012	30°004	30°019	°027	°043	71°5	85°0	—	68°0	80°6	10°0	°713	
14	°031	°053	°066	°045	29°995	29°978	29°967	°035	°049	69°0	84°0	—	68°0	80°8	4°0	°744	
15	°017	°052	°051	°055	30°025	30°007	30°011	°052	°055	67°0	82°0	—	65°5	80°8	1°0	°716	
16	°054	°067	°078	°053	°009	30°013	°007	°036	°044	67°0	80°0	—	65°5	80°6	5°0	°746	
17	°048	°045	°061	°049	30°012	29°983	30°004	°041	°066	68°5	83°0	—	65°5	79°5	8°0	°692	
18	°045	°080	°082	°058	29°978	29°961	29°999	°032	°047	73°0	83°0	—	70°0	79°7	10°0	°749	
19	°081	°111	°119	°088	30°046	30°038	30°072	°089	°125	72°5	84°0	—	69°0	80°0	10°0	°766	
20	°098	°131	°142	°128	°066	°038	°061	°085	°105	68°5	84°0	—	66°0	80°1	11°0	°682	
21	°088	°117	°129	°102	°077	°046	°068	°085	°136	63°0	84°0	—	61°0	80°1	10°5	°615	
22	°071	°120	°149	°134	°085	°070	°082	°097	°102	65°0	82°0	—	62°5	80°1	11°0	°673	
23	°099	°115	°130	°117	°081	°039	°061	°096	°105	70°5	81°5	—	67°0	80°2	11°0	°628	
24	°108	°114	°107	°088	°046	30°017	°038	°061	°108	68°0	82°0	—	62°0	80°1	11°0	°680	
25	°054	°072	°080	°063	°015	29°983	°015	°036	°045	69°0	82°0	—	63°0	80°1	11°5	°611	
26	°087	°112	°113	°090	°060	30°040	°049	°107	°131	70°0	83°0	—	66°5	80°1	11°0	°749	
27	°127	°145	°142	°114	°062	°038	°042	°079	°102	71°0	83°0	—	67°5	80°3	11°5	°731	
28	°093	°123	°125	°035	30°030	30°003	30°017	°055	°046	72°5	84°0	—	67°0	80°6	11°5	°716	
29	°040	°079	°068	30°042	29°960	29°937	29°971	30°003	°005	72°0	89°5	—	70°0	80°6	10°5	°706	
30	30°005	30°023	30°021	29°988	29°950	29°912	29°940	29°997	30°014	73°0	89°5	—	69°0	80°8	12°0	°736	
Mean	30°075	30°101	30°108	30°084	30°035	30°013	30°037	30°067	30°082	68°4	84°0	—	65°0	80°0	268°5	°690	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	70°5	68°0	74°5	71°6	78°0	74°8	79°9	70°0	81°3	74°0	77°2	74°0	75°0	70°0	74°0	69°5	75°0	70°5
2	70°0	68°5	77°5	74°2	79°0	72°0	83°0	73°0	82°3	75°0	79°5	72°8	77°0	71°0	76°8	70°0	75°0	69°2
3	74°0	71°5	79°0	74°0	80°0	73°0	81°0	73°0	81°5	74°8	84°7	72°8	77°0	68°0	72°2	67°2	73°0	67°5
4	68°8	67°0	77°5	72°8	80°0	73°0	81°0	73°0	81°0	73°0	80°4	72°4	75°9	69°3	73°0	67°5	72°8	67°0
5	66°4	65°0	69°0	67°0	74°2	70°2	79°0	71°0	80°8	73°7	78°4	72°0	74°0	70°0	70°0	67°0	71°5	67°0
6	69°2	68°0	73°0	70°0	78°0	71°5	78°0	74°8	81°0	72°0	79°8	74°0	74°2	67°8	72°5	67°0	70°0	65°4
7	65°0	63°5	70°0	67°2	76°2	71°0	78°0	74°0	81°0	74°0	79°0	70°2	75°4	67°8	73°0	66°5	72°0	67°0
8	67°0	65°0	73°0	69°0	77°0	71°0	75°5	70°9	78°5	72°0	80°2	70°2	75°0	68°5	72°0	67°2	71°5	67°0
9	67°2	66°0	77°0	71°8	79°0	72°0	81°0	71°8	83°0	70°0	79°0	70°0	76°4	69°8	75°0	69°9	73°0	69°0
10	72°5	68°5	75°2	71°0	78°0	72°0	81°7	73°0	82°0	74°6	80°0	73°0	79°0	72°0	78°0	71°0	77°0	71°0
11	72°0	70°0	75°0	71°0	80°2	72°2	85°0	73°8	85°0	73°0	80°5	73°0	77°5	71°0	79°0	71°0	74°8	70°0
12	71°2	69°0	78°0	72°7	80°0	72°2	84°5	74°0	83°9	74°8	82°0	74°0	78°0	72°0	76°0	72°0	76°0	71°6
13	72°0	69°5	79°2	72°5	81°5	74°0	81°2	74°0	84°5	74°8	79°2	72°2	76°0	67°5	75°0	67°0	75°0	70°6
14	70°0	69°2	75°5	72°0	79°0	74°0	81°0	75°0	81°8	74°0	78°6	74°0	76°0	70°8	74°6	70°5	73°8	70°2
15	68°0	67°0	72°0	71°0	81°0	74°8	74°5	71°5	73°0	71°8	74°6	71°2	73°0	70°0	72°0	69°5	71°2	69°3
16	69°0	67°5	69°8	67°2	76°0	72°0	74°0	72°0	77°5	71°5	77°0	71°0	74°5	70°0	74°0	70°0	74°0	70°0
17	72°0	70°0	75°8	72°5	78°0	73°0	82°5	74°0	82°0	74°0	79°0	74°0	77°8	73°4	76°0	71°0	76°0	71°0
18	75°0	71°3	78°0	74°0	80°0	74°0	81°6	75°0	82°0	76°8	81°0	75°0	77°7	72°0	76°0	72°0	76°0	72°5
19	73°0	71°5	76°5	73°2	80°0	75°0	83°0	76°0	82°0	75°0	80°0	75°0	78°0	74°5	76°0	71°5	74°0	70°5
20	70°0	68°0	76°5	72°0	81°0	76°0	81°6	73°4	83°8	74°0	80°6	74°2	75°0	69°0	73°0	68°0	71°2	67°8
21	64°0	63°0	71°8	68°8	81°0	72°2	82°0	71°8	79°8	74°0	81°0	74°2	75°3	69°0	74°5	68°8	74°0	68°5
22	66°2	65°0	74°0	70°0	78°8	72°0	80°0	72°6	78°8	71°0	81°8	72°0	75°3	69°8	74°0	69°0	73°5	69°2
23	74°0	70°0	76°0	70°0	78°2	69°8	79°0	71°0	81°0	74°0	80°0	69°9	75°0	68°0	71°0	67°0	70°6	66°7
24	69°8	67°0	75°0	70°0	79°4	70°4	80°8	73°0	79°8	72°2	80°0	74°0	75°4	69°8	73°0	68°5	73°0	68°0
25	72°0	68°8	78°0	70°0	79°8	74°2	79°8	70°8	81°0	73°0	78°5	72°4	76°8	70°0	74°0	69°0	73°0	69°0
26	72°2	70°2	77°0	73°0	80°0	73°6	81°5	75°0	83°0	75°0	81°3	74°8	79°5	72°2	70°4	70°8	75°2	70°7
27	72°2	70°0	75°0	72°0	80°0	73°0	81°5	74°6	81°5	74°5	80°0	74°0	78°0	72°2	75°0	72°0	75°0	70°0
28	73°0	69°4	76°0	73°0	80°2	74°2	81°0	74°0	82°2	75°0	81°0	74°2	79°2	70°8	76°0	71°8	76°0	71°8
29	73°0	72°0	79°0	74°8	81°0	73°5	83°8	74°8	83°0	75°6	81°8	76°2	78°8	71°0	77°0	73°0	75°0	72°5
30	74°0	72°0	78°5	74°0	81°5	75°0	85°0	76°0	87°2	75°2	82°5	74°6	80°0	72°4	75°0	71°0	73°5	70°6
Mean	70°4	68°4	75°4	71°4	79°2	72°6	80°7	73°2	81°5	73°4	80°0	72°6	76°5	70°4	74°5	69°5	73°7	69°4

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

APRIL 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	Cir.	3	W	1	—	—	—	—	Cum.-s.	8	SE	3	Cum.	5	SE	2	Cum.	3	—	—
2	—	—	—	—	Cir.	3	W	0.5	—	—	—	—	Cum.-s.	2	—	0	Cum.	6	SE	1	Cum.	8	W	1
3	—	—	—	—	Cir.-s.	2	SW	1	—	—	—	—	Cum.	4	E	5	Cum.	5	E	2	Cum.	4	—	—
4	—	—	—	—	Cir.	4	SSW	0.5	—	—	—	—	Cum.	7	E	2	Cum.	4	E	3	Cum.	9	W	1
5	Cir.-c.	3	S	0.3	—	—	—	—	Cir.-c.	6	NE	0.5	Cum.-s.	5	E	1	Cum.-s.	8	E	3	Cum.	3	—	—
6	—	—	—	—	Cir.	4	NW	0.3	—	—	—	—	C.N.	9	NE	2	Cum.	4	E	2	Cum.	2	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	E	3	Cum.	8	E	1	Cum.	3	—	—
8	Cir.	3	W	1	Cir.	4	W	0.5	Cir.	6	SW	0.3	Cum.-s.	3	E	1	Cum.	4	E	3	Cum.	4	—	—
9	—	—	—	—	Cir.-c.	3	W	1	—	—	—	—	Cum.-s.	9	E	2	Cum.	5	NE	1	Cum.	8	NW	1
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	W	1	Cum.	9	S	1	Cum.-s.	8	S	1
11	—	—	—	—	Cir.-c.	3	N	0.3	—	—	—	—	Cum.-s.	10	S	1	Cum.	6	SW	1	Cum.	7	W	2
12	Cir.-c.	3	SW	0.5	—	—	—	—	—	—	—	—	Cum.-s.	5	SE	3	Cum.	8	S	3	Cum.	6	S	1
13	—	—	—	—	Cir.-c.	3	W	1	—	—	—	—	Cum.-s.	5	SE	2	Cum.-s.	5	E	2	Cum.	8	E	2
14	—	—	—	—	Cir.-c.	3	NW	0.3	—	—	—	—	Cum.-s.	8	N	4	Cum.	4	E	4	Cum.	8	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	3	C.N.	10	E	2	Nim.	10	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	3	C.N.	7	E	3	Cum.	8	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	E	4	Cum.	6	E	2	Cum.	8	E	2
18	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	3	Cum.	4	SE	2	Cum.	8	S	2
19	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	8	SE	3	Cum.	4	—	0	Cum.	7	N	1
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	N	1	Cum.	5	E	2	Cum.	2	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	E	3	Cum.	8	E	3	Cum.	5	NE	3
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	NE	3	Cum.	8	NE	3	Cum.	3	NE	1
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	E	2	Cum.	8	E	2	Cum.	2	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	2	—	0	Cum.	10	E	3	Cum.	3	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	9	E	2	Cum.	6	E	2	Cum.	2	S	2
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	ESE	2	Cum.	6	ESE	3	Cum.	3	S	1
27	—	—	—	—	—	—	—	—	—	—	—	—	C.S.N.	9	E	3	Cum.	5	E	2	Cum.	9	S	1
28	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	2	Cum.	5	E	2	Cum.	9	S	1
29	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	ESE	2	Cum.	8	E	2	Cum.	3	N	1
30	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	6	SE	2	Cum.	6	SE	1	Cum.	7	S	1
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.8	—	2.3	—	6.2	—	2.1	—	5.7	—	—

Day.	WIND.						Vel.	Rain-fall.	REMARKS.
	Direction and Force.								
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.				
1	Calm 0	E 1	ESE 2	ENE 1	E 3	miles. 205	ins. —	☼ (mist) on hills 6a. Day very fine. ☼ shower in SE. 5p.	
2	Calm 0	E 1	ESE 3	E 1	Calm 0	230	—	☼ n. ☼ on swamp 6a. Very fine day, with ☼ at times. ☼ in SE. 5p.	
3	Calm 0	ESE 2	E 2	E 1	E 1	115	—	☼ n. ☼ Fine, with ☼, till 10a., then overcast and dull till noon. Very fine from 2p.	
4	W 1	ESE 2	E 2	ENE 1	E 1	215	—	☼ n. ☼ on swamp 6a. Dull, with ☼, 8a. Very fine p. ☼ 28p.	
5	W 0.5	SE 1	ESE 2	E 1	Calm 0	175	—	☼ n. ☼ Day dull and overcast, with ☼ on N. hills, and ☼ showers.	
6	NW 1	E 2	ESE 2	ENE 1	Calm 0	120	—	☼ n. ☼ on swamp 6a. ☼ showers in ESE. a. Day fine, with ☼ till 2p.	
7	W 1	ESE 1	E 2	E 1	Calm 0	130	—	☼ n. ☼ on swamp 6a. Dull and overcast a. Very fine and clear p.	
8	Calm 0	S 1	E 0.5	ENE 0.5	Calm 0	135	—	☼ n. ☼ Very fine till 10a. Dull and heavy till 4p., then very fine.	
9	W 1	ESE 1	ESE 2	ENE 1	N 1	105	—	☼ n. ☼ Very fine till 4p., then dull and overcast.	
10	E 1	Calm 0	E 2	ESE 1	S 1	185	—	Dull and overcast most of day.	
11	Calm 0	E 1	Calm 0	E 2	Calm 0	155	—	☼ n. ☼ (mist) on N. hills a. Dull, with local ☼ showers in S. 2p., then fine.	
12	E 1	ESE 1	E 2	ESE 1	E 1	175	—	☼ n. ☼ Fine day, with ☼. ☼ showers in ESE. 6p.	
13	ENE 1	E 1	ESE 2	Calm 0	E 1	200	—	☼ n. ☼ Fine all day. Local ☼ showers in S. 2p. ☼ in NW. 10p.	
14	Calm 0	Calm 0	NbyE 1	E 1	Calm 0	140	22	☼ n. ☼ (mist) on swamp a. Dull and overcast 10a.—2p., then fine.	
15	W 1	N 1	Calm 0	E 1	Calm 0	115	09	☼ n. ☼ to S. and W. 6a. Dull and overcast all day, with ☼ showers. ☼ in W. 10p.	
16	Calm 0	E 3	E 2	E 1	E 1	115	194	☼ n. ☼ Dull and overcast a. Squall, with ☼ from E., ☼ in NNE. 10a. Fine p.	
17	Calm 0	E 2	ESE 2	E 2	Calm 0	135	—	Fine all day, with ☼. ☼ showers in S. at noon.	
18	EbyN 1	E 2	E 3	E 2	E 2	255	—	Fine day, with ☼. Local ☼ showers in S. 6p.	
19	E 1	E 2	E 2	E 2	E 1	300	—	☼ n. ☼ (mist) on N. hills a. Day fine, with ☼.	
20	Calm 0	E 1	E 2	E 2	Calm 0	205	—	☼ n. ☼ (mist) on swamp 6a. Fine, with ☼ a. Very fine from 2p.	
21	W 1	sebye 1	NE 1	N 1	N 2	160	—	☼ n. ☼ (mist) on swamp 6a. Ugly in NE. 10a. Day fine, with ☼. Very close and [dull 2p.	
22	W 1	S 1	E 2	N 1	Calm 0	140	—	☼ n. ☼ (mist) on swamp 6a. Dull most of day. ☼	
23	E 1	NE 1	E 2	NE 2	Calm 0	130	09	☼ n. ☼ a. Fine most of day.	
24	W 1	E 2	ESE 3	E 1	Calm 0	150	01	☼ n. ☼ Very fine till noon. Dull and overcast 2p. and 6p.	
25	W 1	ESE 3	ESE 3	E 1	S 1	235	—	Fine all day. ☼	
26	Calm 0	ESE 2	ESE 2	SSE 1	S 1	255	—	Ugly in N. 6a. Fine, with ☼, till 4p. Overcast 6p., with ☼ in S.	
27	W 1	E 2	E 3	E 1	Calm 0	200	—	☼ n. ☼ Day fine, but sometimes dull. ☼ p.	
28	E 1	E 2	E 3	E 1	Calm 0	240	—	Fine most of day.	
29	ENE 1	E 1	E 3	E 1	Calm 0	220	105	☼ n. ☼ (mist) on N. hills 6a. Fine day. ☼ showers in S. 2p.	
30	E 1	E 1	E 2	E 1	Calm 0	120	—	☼ n. ☼ (mist) on N. hills 6a. Very fine most of day.	
Mean	0.6	1.4	2.0	1.2	0.6	175.3	3.40		

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

MAY 1887.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 30°015	ins. 30°022	ins. 30°030	ins. 30°004	ins. 29°950	ins. 29°962	ins. 29°995	ins. 30°009	ins. 30°057	70°5	89°0	—	67°5	81°0	hours. 8°0	ins. °630	
2	°082	°102	°110	°098	30°062	30°018	30°055	°110	°126	67°0	85°0	—	65°0	81°0	10°5	°718	
3	°090	°104	°092	°078	30°048	30°040	30°078	°095	°074	67°0	82°0	—	67°5	81°0	5°0	°655	
4	°037	°047	°052	°023	29°965	29°957	29°987	°036	°031	64°0	84°5	—	62°5	81°0	4°5	°741	
5	°010	°037	°046	°032	29°984	29°983	30°031	°059	°079	64°5	85°5	—	63°0	80°9	8°0	°738	
6	°069	°089	°110	°091	30°044	30°020	°044	°082	°116	67°0	83°5	—	65°0	80°9	10°5	°733	
7	°123	°139	°136	°120	°070	°052	°076	°129	°133	67°5	85°0	—	65°0	81°0	11°0	°774	
8	°134	°122	°117	°117	°080	°034	°044	°066	°095	71°0	83°0	—	65°0	81°0	12°0	°664	
9	°084	°099	°099	°088	°033	°018	°028	°110	°068	67°0	82°0	—	64°0	80°9	6°0	°594	
10	°057	°089	°084	°077	°060	°021	°049	°082	°087	67°5	83°5	—	63°0	80°9	12°0	°680	
11	°068	°085	°105	°088	°050	°048	°063	°085	°090	70°5	84°0	—	66°0	80°9	3°5	°655	
12	°091	°105	°113	°081	30°020	30°049	30°052	°075	°075	70°5	82°0	—	67°0	80°8	2°5	°708	
13	30°051	°068	30°068	30°032	29°996	29°970	29°992	30°022	30°013	71°0	84°0	—	70°0	80°8	6°5	°699	
14	29°987	30°013	29°998	29°964	°930	°906	°924	29°959	29°991	73°5	87°0	—	71°0	80°8	4°0	°718	
15	°960	29°959	°950	°914	°900	°889	°918	°920	29°924	71°0	88°0	—	69°0	81°0	1°5	°790	
16	°933	°958	°978	°961	°923	°927	°940	°968	30°002	69°0	80°0	—	68°0	79°2	0°0	°687	
17	°965	°985	°981	°966	°935	°923	°960	°980	29°982	68°5	83°0	—	68°0	79°1	4°0	°713	
18	°987	°987	°992	°990	°937	°937	°960	°953	°937	71°5	75°5	—	71°0	79°0	0°0	°761	
19	°935	°937	°941	°899	°846	°830	°838	°892	29°900	72°0	86°5	—	71°5	79°0	6°0	°801	
20	°906	°950	29°952	29°935	°891	°924	29°951	29°973	30°005	75°5	93°5	—	72°5	79°2	6°5	°848	
21	29°982	29°991	30°010	30°026	°972	°980	30°002	30°015	°037	75°0	88°0	—	74°5	79°8	4°0	°863	
22	30°023	30°031	°043	°041	°994	°994	30°004	°027	°027	72°0	84°0	—	71°5	80°0	1°0	°915	
23	29°989	°020	°023	°027	°994	°965	29°976	°003	°011	72°5	84°0	—	71°5	80°2	2°0	°837	
24	30°017	°035	°038	°017	29°991	29°986	30°000	°049	°032	71°0	87°0	—	69°0	80°4	11°0	°746	
25	°045	°076	°066	°049	30°026	30°012	°048	°068	°082	75°0	89°0	—	73°0	80°7	6°0	°796	
26	30°032	°068	°057	°029	°002	30°020	°002	°020	30°053	75°0	88°0	—	73°5	81°0	5°0	°749	
27	29°992	°037	°018	30°008	°007	29°991	°000	°004	29°981	74°0	85°0	—	74°0	81°1	0°5	°865	
28	30°017	°023	°027	29°998	30°002	°079	30°000	°019	30°018	72°0	89°0	—	69°0	81°1	3°0	°756	
29	°007	°022	°015	30°001	29°988	°973	29°975	°007	°031	69°5	84°0	—	69°0	81°1	3°0	°766	
30	°015	°029	°024	°023	29°983	29°978	29°990	°017	°029	70°5	85°0	—	69°5	81°1	10°0	°746	
31	30°095	30°087	30°088	30°074	30°043	30°032	30°069	30°093	30°110	70°0	85°0	—	68°5	81°1	4°5	°834	
Mean	30°026	30°042	30°044	30°027	29°991	29°981	30°002	30°030	30°039	70°4	85°0	—	68°5	80°5	172°0	°748	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	72°2	70°5	77°0	78°5	82°0	74°5	87°0	76°0	86°5	76°5	81°6	75°0	78°8	78°0	75°0	71°0	72°0	69°5
2	71°0	69°0	74°0	76°5	81°8	78°0	82°0	74°5	82°2	75°0	81°0	74°5	78°5	72°0	75°5	70°0	72°5	69°4
3	73°0	71°0	74°5	78°0	80°0	74°0	78°8	74°6	72°0	69°2	71°0	70°2	71°0	69°5	71°0	68°5	68°5	68°0
4	69°0	67°5	72°0	70°0	78°0	78°5	79°5	74°0	83°0	74°0	78°2	78°0	73°0	69°0	70°0	69°0	70°0	69°0
5	66°0	65°2	73°0	70°2	81°0	76°5	82°2	76°0	84°0	75°0	79°0	75°0	73°2	72°0	71°5	70°2	70°0	69°0
6	68°0	67°0	74°0	72°0	80°2	75°4	82°5	75°0	82°0	75°0	80°0	78°0	77°9	72°2	74°0	71°0	73°2	70°0
7	73°0	71°0	79°2	74°4	80°0	75°4	80°0	75°0	84°0	76°2	81°0	78°0	77°5	72°0	75°0	71°0	73°0	70°0
8	72°0	69°6	78°2	69°0	80°0	71°5	81°9	73°0	81°0	73°0	80°0	71°0	77°0	70°2	75°0	69°8	74°0	69°7
9	68°2	66°2	75°0	70°2	78°2	71°4	81°6	71°0	80°0	71°2	80°0	70°0	76°0	69°2	72°2	68°0	73°0	68°2
10	68°2	66°6	75°0	70°5	81°5	73°8	82°0	73°5	81°2	72°4	79°0	74°0	76°5	70°2	75°8	70°0	73°0	69°0
11	75°0	71°2	75°0	69°2	73°2	70°2	81°0	72°5	81°0	75°0	79°9	78°8	75°5	72°0	74°0	71°0	73°0	70°6
12	72°0	70°0	76°0	78°2	79°8	78°4	80°0	78°5	80°0	74°6	76°0	78°0	73°2	70°8	73°5	71°2	73°0	71°5
13	73°0	72°0	77°0	74°0	80°0	74°5	82°0	74°0	82°0	75°8	78°8	74°8	77°0	78°0	75°8	75°0	75°0	73°0
14	75°0	72°0	77°0	78°8	81°8	75°0	85°0	76°6	86°0	75°8	81°8	75°0	79°5	75°0	78°0	73°0	77°5	73°0
15	76°0	78°2	78°2	74°0	83°4	76°8	89°0	78°0	81°0	76°0	75°0	78°8	71°4	71°0	71°4	71°0	71°4	71°0
16	71°5	71°0	73°5	71°8	77°5	78°0	75°0	71°0	78°0	72°0	73°0	70°2	72°0	71°0	72°0	71°0	72°0	71°0
17	72°0	71°0	76°2	73°0	79°0	75°0	80°0	78°6	82°0	74°0	79°0	78°5	76°0	72°2	75°5	72°0	74°2	72°0
18	74°0	73°2	74°2	73°6	73°0	72°5	72°0	71°5	73°5	78°0	73°5	78°5	73°0	72°0	73°8	72°5	73°5	72°5
19	76°0	74°0	77°0	74°8	82°0	77°0	85°0	77°5	86°0	77°8	82°5	76°5	81°0	75°0	80°0	75°5	79°0	75°8
20	77°0	74°5	82°0	76°4	85°5	77°8	89°0	80°0	92°0	81°0	81°0	76°0	78°0	72°0	77°8	75°6	78°0	75°8
21	77°0	76°0	80°0	77°0	84°0	76°0	87°5	79°8	82°5	78°0	81°0	77°5	79°0	76°0	77°2	74°8	77°0	74°5
22	76°0	74°0	79°0	76°0	81°5	77°0	80°0	78°0	84°0	78°0	82°0	75°0	79°5	74°8	78°0	74°0	76°0	74°0
23	74°0	73°0	80°0	77°0	81°0	77°0	81°7	77°0	82°0	76°8	81°8	76°8	79°0	74°8	77°0	74°0	76°0	74°0
24	74°0	73°0	79°0	76°0	82°0	76°5	85°8	76°5	84°8	78°4	80°5	75°8	79°0	76°0	78°8	76°0	78°0	76°0
25	75°5	74°0	80°0	76°2	81°0	76°0	86°8	78°0	85°8	75°5	82°0	75°0	81°0	75°0	80°0	75°9	78°5	74°5
26	76°0	74°0	80°8	75°8	83°0	76°8	87°0	77°0	84°2	74°8	82°0	77°8	80°0	75°0	79°0	74°8	78°5	75°0
27	77°0	75°0	81°0	77°0	81°5	77°0	82°0	77°8	75°8	72°4	77°0	75°0	78°5	73°5	74°0	73°0	74°0	73°0
28	73°0	71°0	77°0	74°0	81°5	76°0	86°5	77°0	76°0	74°0	75°0	73°5	75°8	74°0	74°0	72°2	73°0	71°2
29	75°0	72°0	77°0	74°0	81°0	76°2	83°0	76°0	79°0	75°0	79°0	78°0	77°0	73°0	75°5	72°8	73°8	72°0
30	72°8	72°0	77°0	75°0	81°2	75°5	83°2	75°6	83°2	75°2	81°5	77°0	79°5	74°5	77°0	72°5	76°0	72°5
31	73°2	72°2	75°0	73°8	81°5	77°0	83°0	77°6	84°0	78°0	80°0	74°2	78°8	75°5	75°0	73°0	75°0	73°0
Mean	73°1	71°4	76°9	73°5	80°6	75°0	82°6	75°3	81°9	75°4	79°1	78°9	76°8	72°8	75°2	72°2	74°2	71°9

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

MAY 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	Cir.-c.	1	W	0.5	—	—	—	—	—	—	—	—	Cum.	3	E	2	Cum.	8	E	2	Cum.	10	E	2
2	Cir.-c.	6	W	1	Cir.-s.	2	W	1	—	—	—	—	Cum.	2	E	1	C.N.	6	E	2	Cum.	6	S	1
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Nim.	10	—	—	C.N.	10	SE	1
4	Cir.-s.	4	SW	1	Cir.	2	W	1	—	—	—	—	Cum.	2	E	1	Cum.	6	E	3	Cum.	8	SW	1
5	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	1	—	—	Cum.	6	E	2	Cum.	2	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	Cum.	6	E	2	Cum.	3	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	2	Cum.	6	E	2	Cum.	5	NE	4
8	Cir.	3	SW	0.5	—	—	—	—	—	—	—	—	Cum.	2	E	0.5	Cum.	8	E	2	Cum.	3	—	—
9	—	—	—	—	Cir.	4	SSW	0.5	Cir.-c.	6	W	1	Cum.	9	E	2	Cum.	4	E	1	Cum.	3	—	—
10	Cir.	3	W	1	Cir.	4	W	1	—	—	—	—	Cum.	2	E	1	Cum.	5	E	2	Cum.	6	E	1
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	E	2	Cum.-s.	8	E	2	Cum.	8	E	2
12	—	—	—	—	Cir.-c.	2	W	1	—	—	—	—	C.N.	8	E	2	C.N.	7	E	3	C.N.	10	—	—
13	—	—	—	—	Cir.	2	SW	1	—	—	—	—	C.N.	9	E	3	Cum.	6	NNE	1	Cum.-s.	8	E	2
14	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	3	S	4	C.N.	9	—	—
15	—	—	—	—	Cir.-c.	1	W	1	—	—	—	—	Cum.-s.	9	W	2	C.N.	9	W	3	Nim.	10	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	10	—	—	Nim.	10	—	—
17	—	—	—	—	Cir.-c.	2	W	1	—	—	—	—	C.N.	10	E	1	C.N.	7	E	2	—	5	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Nim.	10	—	—	Nim.	10	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	S	2	Cum.	7	S	3	—	10	—	—
20	Cir.-c.	4	WNW	1	—	—	—	—	—	—	—	—	C.S.N.	5	S	2	C.N.	8	E	2	C.N.	8	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	2	C.N.	9	SE	1	—	10	—	—
22	Cir.-c.	3	W	1	Cir.-c.	4	NE	0.5	—	—	—	—	C.N.	6	E	2	Cum.	4	W	1	Cum.	7	—	—
23	Cir.-c.	2	W	1	—	—	—	—	—	—	—	—	C.N.	6	NE	1	Cum.	8	E	2	Cum.	3	E	2
24	Cir.-s.	2	W	1	—	—	—	—	—	—	—	—	Cum.	3	NNE	1	C.N.	9	S	0.5	Cum.	5	S	1
25	Cir.-s.	2	W	1	—	—	—	—	—	—	—	—	Cum.	6	SE	1	Cum.	9	SE	3	Cum.	6	SW	2
26	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	6	S	2	Cum.	7	S	1
27	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	E	2	C.N.	10	S	1	C.N.	9	NW	1
28	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	5	SE	2	Nim.	10	—	—	Cum.	7	S	1
29	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	1	C.N.	10	S	3	Cum.	2	—	—
30	—	—	—	—	Cir.	2	W	1	—	—	—	—	Cum.	7	E	2	C.N.	6	E	2	Cum.	5	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	9	E	2	Cum.	5	NE	1
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.0	—	—	—	7.4	—	—	—	6.8	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	W 1	ESE 1	ESE 2	SbyE 2	Calm 0	130	—	☼ (mist) on N. hills 6a. Fine, with ∞, till 2p. Ugly, with distant T, in S. 4p.
2	W 1	sebyE 1	E 2	E 1	Calm 0	150	—	Very fine a. Ugly in N. 10a. ☼ shower 1p. Ugly, with <, in S. 6p. Fine and mild 8p.
3	W 1	ESE 3	ENE 2	WNW 1	Calm 0	120	*22	☼ n. Fine 8a. Dull day. T in SW. noon. ☼ T in ESE. 2p. Clouds low, 6p.
4	W 1	S 1	NNE 2	E 1	Calm 0	105	*18	Distant T in SW. a. and p. K in ENE. 4p. K in W. 6p. K 2 overhead 8p. U 10p.
5	NNW 1	S 1	N 2	NNW 0.5	Calm 0	80	*14	☼ n. ☼ (mist) 6a. Fine 8a.—2p. Squall from E. ☼ 2 in S. distant T, 4p.
6	WbyN 1	SE 1	NE 1	ENE 1	Calm 0	205	*15	☼ n. ☼ (mist) on swamp 6a. Fine day. Ugly in N. at noon.
7	W 1	E 2	ESE 2	E 1	Calm 0	125	*02	☼ (mist) on swamp and N. hills a. ☼ showers 10a. Very fine p.
8	W 1	E 2	E 2	NNE 2	NNE 1	175	—	☼ n. Very fine day.
9	W 1	SSE 1	ESE 2	E 1	ENE 0.5	165	—	☼ n. Day fine, with ∞, though dull at times.
10	W 1	SSE 1	ESE 3	NE 2	Calm 0	140	—	☼ n. Day fine, with ∞.
11	E 1	E 2	ESE 2	ESE 1	Calm 0	125	*01	☼ (mist) on swamp 6a. Day dull and overcast, with ☼ showers. [☼
12	NNE 1	ESE 2	ESE 4	E 1	Calm 0	180	*43	☼ 6a. ☼ (mist) on hills 8a. Fine, with ∞, 10a.—noon. Dull and overcast from 4p.
13	W 1	E 2	ESE 2	ENE 2	Calm 0	200	*60	☼ a. ☼ (mist) on N. hills 8a. Fine, with ∞, 10a.—4p. ☼ in W. 6p. Dark and raw 8p.
14	E 1	E 2	ESE 2	E 1	Calm 0	205	—	Fine all day, with ∞.
15	Calm 0	S 0.5	NNE 2	E 1	Calm 0	83	—	Dull and close, with ∞, a. T in S. 1p. ☼ from 2.35p. K 2 2p.—5.30p.
16	Calm 0	S 1	NNE 1	WNW 1	Calm 0	70	550	☼ all n. ☼ (mist) on hills a. ☼ 8a. Dull day, with low clouds and ☼.
17	Calm 0	S 1	ESE 1	NNE 1	Calm 0	50	*28	☼ (mist) on hills a. Very dull and close. ☼ showers in S.
18	Calm 0	Calm 0	ENE 1	E 1	ENE 1	95	166	☼ all day.
19	E 2	SSE 2	SSE 3	SE 1	Calm 0	205	*26	☼ (mist) on hills a. Very ugly in N. and E. 6a. Dull at 8a., then fine till 4p.
20	Calm 0	SE 1	ESE 1	Calm 0	Calm 0	140	—	☼ (mist) 6a. Very fine 8a.—2p. K in W. passing to E. 2.15p.—4.40p. < in E. 8p.
21	Calm 0	SSE 1	W 1	E 1	Calm 0	45	*06	☼ n. ☼ (mist) on hills a. Day dull. T in W. passing to E. 0.30p.—2p. Distant T in [N. 4p.
22	Calm 0	ESE 1	ESE 2	NE 1	Calm 0	130	*09	☼ (mist) on swamp, ☼ in S., a. Dull most of day. Muggy at noon.
23	Calm 0	SE 0.5	E 2	NNE 2	Calm 0	55	*11	☼ n. ☼ (mist) on swamp and hills a. Dull till 4p., then fine, with < in SW.
24	Calm 0	ESE 1	ESE 2	E 1	S 1	75	—	☼ n. ☼ (mist) on swamp and hills a. Very fine till noon. T in S. and E. 2p.
25	ESE 1	ESE 2	ESE 2	NNE 1	E 1	155	—	☼ (mist) on hills a. Fine till noon, then overcast, with ∞. [< in ENE. 8p.
26	E 1	ESE 2	ESE 2	E 1	Calm 0	195	—	Fine all day, with ∞.
27	E 1	ESE 2	ENE 1	NNE 1	Calm 0	170	—	☼ n. ∞ 2 a. ☼ in S. a. T in W. a. and p. Day overcast and dull.
28	W 1	ESE 1	SbyW 1	Calm 0	Calm 0	145	*01	☼ n. ☼ (mist) a. Fine, with ∞ 2, till noon. T in S. 11a.—1p. K 2 2 overhead 2p.
29	W 1	ESE 1	ESE 2	ENE 1	Calm 0	85	*19	☼ n. Fine, with ∞ 2 a. Dull p. Very dark, with T in SW., 1p.
30	W 0.5	E 2	ESE 3	ESE 2	E 1	125	—	☼ n. Fine, with ∞, a. ☼ in S., T noon. Ugly in S. p. Fine, with ∞, from 6p.
31	ENE 1	E 2	ESE 5	E 2	Calm 0	175	*37	☼ 2 K 6a. ☼ (mist) on hills 8a. T in S. noon and 2p. Close and dull 4p. [☼ 0 6p. K 2 2 6.10p.—6.50p.
Mean	0.7	1.4	2.0	1.1	0.2	132.4	10.28	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

JUNE 1887.

Day.	BAROMETER.									TEMPERATURE.				SUN-SHINE.	Vapour	
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.									Shade.		Radiation.			Earth.	Tension.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.			Noon.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.			°			hours.	ins.
1	30°113	30°130	30°140	30°137	30°086	30°065	30°082	30°099	30°113	72°5	84°0	—	72°0	81°1	3°0	7810
2	°112	°116	°112	°089	°069	°069	°067	°085	°085	74°0	85°0	—	71°0	81°1	2°0	751
3	°040	°082	°112	°079	°040	°037	°028	°063	°070	71°5	85°0	—	70°5	80°6	6°5	766
4	°037	°050	°053	°038	°004	30°006	°004	°035	°037	72°0	83°0	—	70°5	80°5	2°0	779
5	°052	°070	°060	°050	°010	29°995	°023	°053	°069	68°5	85°0	—	67°0	79°8	5°5	7812
6	°035	°069	°082	°054	°030	30°046	°062	°060	°077	72°5	87°0	—	71°5	80°0	3°0	772
7	°056	°067	°072	°065	30°026	30°022	30°036	°033	°044	72°0	85°0	—	70°0	80°1	6°0	7818
8	°026	°026	°044	°030	29°979	29°975	29°993	30°020	°027	72°0	86°0	—	71°0	80°3	4°0	7897
9	°033	°001	°007	°002	29°959	29°977	29°976	29°982	°012	71°5	89°0	—	70°5	80°5	5°5	796
10	°032	°039	°054	°070	30°026	30°006	30°023	30°029	°044	71°5	85°0	—	70°0	80°5	9°0	785
11	°032	°058	°066	°087	30°063	30°023	30°031	°032	°035	71°0	83°0	—	70°5	80°5	5°0	721
12	°035	°028	°038	30°002	29°971	29°954	29°958	30°023	30°029	70°5	89°0	—	68°5	80°5	6°0	779
13	30°019	30°020	30°010	29°978	°960	°926	°947	29°973	29°967	75°0	86°0	—	72°5	80°5	5°0	799
14	29°974	29°973	29°960	29°948	°912	°904	°930	29°968	29°968	74°5	88°0	—	72°0	80°8	11°0	7812
15	29°997	30°001	30°001	30°007	29°986	29°960	29°939	30°018	30°020	76°0	86°0	—	73°0	81°0	8°0	769
16	30°042	°068	°069	°049	30°005	30°025	30°040	30°073	30°073	75°0	87°0	—	72°0	81°1	10°5	764
17	°060	°070	°082	°052	30°023	30°000	29°955	29°954	29°976	74°5	88°0	—	72°0	81°4	10°0	764
18	°035	°040	°052	°020	29°982	29°960	°965	29°990	30°023	72°5	87°0	—	71°0	81°8	12°0	762
19	°029	°023	°028	°002	29°974	29°960	29°991	30°023	°023	73°0	86°0	—	70°0	82°0	12°0	701
20	°026	°053	°058	°020	30°004	30°001	30°023	°031	°037	71°5	85°0	—	69°5	82°0	1°5	7863
21	°039	°049	°072	°075	°037	30°022	30°022	°015	°040	70°0	76°0	—	69°5	81°1	0°0	718
22	°003	°030	°028	°032	30°001	29°993	29°989	°023	°033	70°9	85°0	—	68°5	80°7	4°0	7837
23	°023	°034	°050	°027	29°976	29°993	30°003	°045	°067	70°5	85°0	—	68°5	80°4	11°5	751
24	°081	°083	°084	°069	30°026	30°022	°046	°071	°105	72°5	85°0	—	70°0	80°5	10°5	7812
25	°085	°093	°122	°086	°070	°061	°108	°089	°082	71°5	84°0	—	72°0	80°4	1°5	7804
26	°061	°075	°088	°060	30°026	30°015	30°023	°057	°087	70°5	83°0	—	70°5	80°2	6°0	785
27	°033	°029	°015	°015	29°988	29°983	29°992	°020	°029	68°0	85°0	—	67°5	80°0	4°0	790
28	°044	°056	°051	°033	30°022	29°993	30°002	°041	°047	73°0	85°0	—	73°0	80°0	8°0	7801
29	°057	°057	°060	°037	°014	30°006	°015	°058	°076	73°0	88°0	—	71°5	80°2	10°5	796
30	30°085	30°082	30°060	30°012	30°031	30°038	30°046	30°075	30°089	73°0	85°0	—	71°5	80°4	11°0	766
Mean	30°043	30°052	30°058	30°041	30°010	30°001	30°013	30°035	30°046	72°1	85°3	—	70°6	80°7	104°5	784

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	75°5	78°0	80°0	77°0	80°0	78°0	80°0	78°8	83°0	76°6	82°0	74°0	79°0	74°2	77°0	78°0	76°5	72°8
2	77°0	78°0	81°0	78°8	83°0	76°0	84°0	76°0	75°5	78°5	77°2	75°0	74°5	72°5	76°0	73°5	75°0	71°0
3	74°5	78°5	77°5	75°0	81°0	76°0	83°0	76°0	81°0	76°0	82°0	76°0	79°0	78°0	76°0	78°0	76°0	72°0
4	76°0	74°0	77°2	75°2	79°8	78°5	81°8	78°8	82°0	78°8	75°0	72°0	75°2	74°0	74°2	73°5	74°0	73°2
5	74°0	72°0	76°0	73°0	81°0	78°5	83°0	77°0	84°0	77°0	81°0	76°2	78°5	74°5	77°0	74°0	77°0	74°0
6	75°0	74°0	79°0	76°5	82°0	76°0	85°5	77°0	82°0	76°0	79°0	76°0	79°0	77°0	79°0	76°5	76°0	75°0
7	74°0	72°5	78°0	75°5	81°8	77°0	82°0	76°8	84°5	76°5	82°8	77°0	79°0	74°2	77°3	73°0	77°0	78°0
8	74°0	73°0	77°5	76°0	82°5	78°0	81°0	78°0	84°0	76°8	83°0	77°0	81°0	76°0	77°6	76°8	76°0	75°0
9	75°0	73°5	78°0	76°0	83°0	77°0	86°0	77°8	89°0	79°0	73°5	72°5	74°5	72°0	74°0	72°5	75°5	73°5
10	76°7	75°0	78°6	76°0	81°5	77°0	82°0	76°0	85°0	76°0	83°5	76°0	79°0	73°5	76°0	72°0	76°0	71°5
11	77°0	74°0	80°0	76°0	82°0	76°5	73°0	74°0	78°0	72°0	79°0	73°6	76°0	71°2	77°0	72°0	74°0	71°0
12	75°0	73°0	81°0	76°8	82°2	76°8	85°0	77°0	87°8	77°0	85°0	77°5	80°6	74°8	78°0	73°0	76°0	73°0
13	76°0	74°0	79°5	74°8	82°0	76°5	83°2	76°8	78°5	74°4	81°8	74°8	81°0	75°5	77°0	74°5	76°0	74°0
14	77°0	74°5	79°5	76°6	82°0	76°0	82°4	76°8	85°0	76°8	87°0	76°8	84°0	75°0	81°0	76°0	80°0	76°0
15	77°0	75°0	80°0	76°0	84°0	77°0	85°0	76°8	84°0	76°0	80°0	77°0	83°0	76°0	81°8	76°0	80°0	77°0
16	77°0	75°0	80°0	76°0	83°0	76°0	86°0	77°0	84°0	78°0	80°0	75°5	80°0	74°0	78°0	75°0	77°5	75°0
17	78°0	75°5	80°2	77°4	83°0	76°0	86°0	77°0	87°0	79°0	83°0	77°8	82°0	75°2	79°0	75°0	78°0	74°5
18	75°0	73°5	80°4	77°8	82°6	76°8	84°8	74°8	85°5	77°0	84°0	76°0	82°5	75°0	79°0	73°0	78°0	74°0
19	76°0	74°0	79°5	76°2	82°4	76°8	84°8	75°0	84°0	78°0	83°5	76°2	79°0	74°0	77°0	73°0	79°0	74°0
20	75°0	73°8	77°0	75°5	80°0	78°0	82°2	77°8	82°0	77°0	76°2	73°5	78°0	76°8	73°0	72°0	72°5	72°0
21	72°0	71°8	73°0	72°8	74°9	73°8	75°0	74°8	73°0	72°0	74°0	72°5	73°2	72°0	73°0	71°2	73°0	70°8
22	72°5	71°0	77°0	74°0	82°0	77°4	82°0	77°2	75°8	70°8	80°0	74°0	76°0	74°0	74°0	73°0	73°0	72°0
23	73°0	72°0	78°0	76°0	81°0	76°4	84°0	76°0	84°8	76°0	82°0	76°8	78°8	74°8	77°0	74°0	75°5	73°0
24	76°0	73°0	78°0	75°0	81°8	77°8	83°0	77°0	84°2	77°8	84°0	75°0	81°0	74°8	78°0	73°8	75°0	73°0
25	75°6	73°0	78°9	76°0	74°2	78°0	84°0	77°2	81°0	75°0	78°0	73°0	76°0	74°0	75°0	73°5	74°5	73°0
26	75°0	73°5	78°0	76°0	80°4	76°0	82°0	76°0	77°2	78°5	79°0	75°0	79°0	74°0	75°0	73°8	72°5	71°2
27	69°5	69°0	77°0	75°0	81°5	78°0	83°8	76°8	82°4	76°6	81°0	76°0	78°7	75°5	76°0	73°5	76°0	74°0
28	77°0	73°0	76°0	73°2	78°5	74°0	83°0	76°8	84°5	77°0	81°5	76°0	80°0	74°8	76°5	74°5	76°0	74°0
29	76°0	74°0	80°0	76°0	82°0	76°4	84°0	77°0	86°5	79°0	83°0	77°0	81°4	75°2	78°0	74°0	77°0	73°8
30	76°2	74°2	77°5	75°0	80°0	76°6	83°0	76°0	79°4	75°0	80°0	74°6	79°0	75°0	76°0	72°4	76°0	72°0
Mean	75°3	73°3	78°4	75°4	81°2	76°2	82°8	76°3	82°5	76°0	80°7	75°3	78°9	74°4	76°8	73°6	76°0	73°3

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

JUNE 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	Cir.	2	S	0.3	—	—	—	—	C.N.	9	E	3	Cum.	7	E	2	Cum.	7	E	4
2	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	4	C.N.	10	E	3	Cum.	7	E	2
3	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	3	C.N.	8	E	2	Cum.	4	E	1
4	—	—	—	—	Cir.	2	SW	1	—	—	—	—	C.N.	9	E	2	Cum.	7	E	3	Nim.	10	—	—
5	Cir.-s.	2	W	1	Cir.-c.	3	W	1	—	—	—	—	Cum.	6	E	1	Cum.	6	E	2	C.N.	9	E	2
6	—	—	—	—	Cir.-s.	1	W	1	—	—	—	—	C.N.	9	E	1	C.N.	8	E	2	Cum.	8	E	1
7	Cir.-c.	2	NW	0.5	Cir.	2	W	1	—	—	—	—	C.N.	6	E	1	Cum.	4	E	2	C.N.	7	E	2
8	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	2	Cum.	8	ENE	2	Cum.	7	E	1
9	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	3	E	1	Cum.	5	S	1	Cum.	9	S	2
10	Cir.-s.	2	WNW	0.5	Cir.-s.	4	W	1	—	—	—	—	Cum.	5	SE	2	Cum.	4	E	2	Cum.	8	E	1
11	Cir.-c.	2	W	1	—	—	—	—	—	—	—	—	Cum.-s.	7	SSE	1	C.S.N.	10	E	1	Cum.	7	N	1
12	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	S	2	Cum.	8	S	3	Cum.	7	S	1
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	SE	2	Cum.	8	SE	4	C.N.	9	S	1
14	Cir.-s.	3	N	1	—	—	—	—	—	—	—	—	Cum.	5	SE	3	Cum.	8	SE	4	Cum.	8	S	2
15	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	S	1	C.N.	10	S	2	Cum.	8	SW	2
16	Cir.-s.	2	E	0.5	—	—	—	—	—	—	—	—	Cum.	4	SE	2	Cum.	7	S	3	Cum.	6	S	1
17	Cir.-c.	1	SE	0.5	—	—	—	—	—	—	—	—	Cum.	3	ESE	3	C.N.	7	SE	2	Cum.	7	S	1
18	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	4	Cum.	7	SE	2	Cum.	8	S	1
19	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	SE	2	Cum.	6	ESE	1	Cum.	2	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	6	E	3	C.N.	9	E	2	Cum.	8	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Nim.	10	—	—	Nim.	10	—	—
22	Cir.-c.	1	E	1	Cir.-c.	1	E	0.3	—	—	—	—	Cum.	1	—	—	Cum.	9	E	3	Cum.	3	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	—	—	Cum.	8	E	2	Cum.	4	—	—
24	—	—	—	—	Cir.-s.	2	N	0.5	—	—	—	—	Cum.	7	E	2	Cum.	7	E	3	Cum.	6	S	1
25	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	10	ESE	2	Nim.	10	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	S	1	C.N.	10	S	2	Nim.	10	—	—
27	Cir.-s.	3	W	0.3	—	—	—	—	—	—	—	—	Cum.	2	E	1	Cum.	9	E	3	Cum.	9	E	1
28	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	S	1	Cum.	9	SE	1	C.N.	10	SE	1
29	—	—	—	—	Cir.-s.	3	E	0.3	—	—	—	—	Cum.	6	E	3	Cum.	5	E	2	Cum.	4	E	1
30	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	E	2	C.N.	9	H	3	Cum.	2	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.5	—	—	—	7.8	—	—	—	7.1	—	—

Day	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	W 1	E 1	ESE 3	E 1	E 1	155	.76	☀ n. Dull and overcast a. Distant ☀ p., with ∞ and ☀ showers. ☀ 5.40p.
2	E 2	E 2	NNE 2	E 1	E 2	215	.40	Fine at first, then dull, with ∞ ² . ☀ p. [☀ showers.
3	E 1	E 2	ESE 2	E 1	Calm 0	105	.60	☀ n. ☀ ⁰ (mist) on swamp 6a. ☀ 7a. Fine from 10a., with ∞ and occasional
4	W 1	E 2	ESE 3	NNE 1	Calm 0	235	.41	☀ showers a. Fine 10a.—2p. Very dark in S., with ☀ 3p. ☀ 10p.
5	Calm 0	E 1	ESE 2	E 2	Calm 0	175	1.67	☀ ² n. ☀ ⁰ (mist) on hills a. Fine till 2p., then overcast and dull. ☀ in NW. 7p.
6	Calm 0	ESE 1	SSE 1	Calm 0	Calm 0	150	.17	☀ ⁰ (mist) on hills and swamp 6a. Fine, with ∞, till noon. ☀ in W. 2p. Ugly.
7	W 1	ESE 2	ESE 3	ENE 1	E 0.5	145	—	☀ n. ☀ ⁰ on swamp and S. hills 6a. Day fine, with ∞ ² . Dull and ugly 8p.
8	W 1	SbyE 1	NbyE 2	NNE 1	Calm 0	135	.02	☀ n. ☀ ⁰ on swamp and S. hills 6a. ☀ ² shower 11a. Dull and overcast p.
9	W 1	E 1	E 1	Calm 0	Calm 0	100	—	☀ n. Very fine a. Ugly in SE. 2p. Distant ☀. ☀ ² from SE. 3p.
10	E 1	E 2	S 2	SbyW 1	Calm 0	165	.90	☀ ⁰ (mist) on N. hills a. Day fine for the most part, with ∞. Ugly in S. and W.
11	E 2	S 2	SbyE 1	E 1	Calm 0	140	.34	☀ ⁰ (mist) on N. hills a. ☀ ² from S. 10a. Day dull and overcast.
12	W 1	E 2	SSE 2	ENE 1	Calm 0	200	—	Fine for the most part, with ∞ ² . Partial ☀ 5p.
13	E 1	ESE 2	ENE 0.5	ESE 2	Calm 0	230	—	☀ ⁰ (mist) on N. hills a. ∞ ² all day. Ugly in E. noon. ☀ in S. 1p. ☀ in E. 8p.
14	E 2	ESE 2	ESE 2	SbyW 2	SW 3	185	—	☀ ⁰ (mist) on N. hills a. Day fine, with ∞. [ESE. 2p. ☀ in SE., passing to NW.
15	ESE 2	E 2	Calm 0	E 2	SW 2	285	—	☀ ⁰ (mist) on N. hills a. Fine, with ∞, till noon. Squall of wind and ☀ from
16	E 2	E 2	E 2	E 1	Calm 0	235	.14	☀ ⁰ (mist) on N. hills 6a. Day fine, with ∞, but ☀ in S. 2p., and in W. 4p.
17	Calm 0	E 1	E 2	E 2	Calm 0	175	—	☀ n. ☀ ⁰ (mist) on swamp 6a. Fine day, but ☀ in S. 2p. [☀ in E. 8p.
18	W 1	E 2	ESE 2	E 2	Calm 0	165	—	☀ ² n. ☀ ⁰ (mist) on swamp and N. hills 6a. Day very fine,
19	Calm 0	E 2	E 3	Calm 0	E 1	140	—	☀ ⁰ (mist) on N. hills a. Fine day.
20	W 1	Calm 0	E 1	S 1	Calm 0	225	.85	☀ in S. a. Very muggy 10a. ☀ ² p.
21	Calm 0	S 1	Calm 0	E 1	E 1	90	2.50	☀ till 4p. Very dull and ugly at 6p., with ☀ ⁰ (mist) on N. hills.
22	Calm 0	E 2	NE 1	SE 0.5	Calm 0	145	.66	Very fine till 10a. Squall of wind and ☀ with ☀ ² from S. at noon. Dull and ugly p.
23	W 0.5	E 2	E 3	E 0.5	Calm 0	105	.32	☀ ⁰ (mist) over valleys 6a. Fine till 2p., then ugly in SSW. and dull. ☀ 2.15p. ☀ 4p.
24	W 1	E 2	ESE 3	E 2	Calm 0	175	—	☀ ⁰ (mist) on swamp and hills a. Day fine, with ∞, till 6p., then ☀ from S. ☀ ²
25	Calm 0	NE 0.5	E 1	E 1	Calm 0	230	1.15	☀ ☀ a. Dull and overcast, with ☀ ⁰ (mist) on hills p. ☀ 10p. [in S. 8p.
26	W 1	ESE 1	E 0.5	ENE 1	Calm 0	80	.06	☀ n. ☀ ⁰ (mist) on swamp 6a. Fine a. Dull and overcast p., with ☀ T.
27	W 1	SbyW 1	ESE 2	Calm 0	Calm 0	100	.13	☀ n. ☀ ⁰ (mist) on swamp and hills a. ☀ noon. Dull and overcast p., with ☀ in S.
28	E 3	E 2	ESE 1	E 2	Calm 0	140	—	☀ ⁰ (mist) on N. hills 6a. Distant ☀ in S. 1p., then fine.
29	E 1	E 2	ESE 3	E 2	Calm 0	140	—	☀ ⁰ (mist) on N. hills a. Day fine, with ∞ ² .
30	W 1	SE 2	E 1	E 1	Calm 0	185	—	Fine a. Overcast noon—2p., with ☀ ² shower 1p. Very fine from 8p.
Mean	1.0	1.6	1.7	1.1	3.5	165.0	11.08	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

JULY 1887.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	11 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
1	ins. 30°065	ins. 30°076	ins. 30°080	ins. 30°054	ins. 30°048	ins. 30°012	ins. 30°028	ins. 30°064	ins. 30°071	70°0	85°0	131°0	69°5	80°7	hours. 11°0	ins. 756	
2	071	052	065	068	028	038	029	057	059	70°0	85°0	122°0	69°5	80°8	6°0	801	
3	095	093	112	088	068	038	078	098	114	68°5	87°0	137°0	68°0	80°7	11°5	801	
4	139	152	168	153	119	087	109	138	147	70°0	87°0	140°0	68°0	80°8	8°5	736	
5	163	172	173	168	127	127	160	170	175	72°5	86°0	128°0	72°0	81°0	6°0	801	
6	178	153	162	150	104	092	098	172	140	72°0	86°0	140°0	71°0	81°0	9°0	749	
7	116	126	106	107	072	058	070	073	081	72°0	85°0	138°0	71°5	81°0	2°5	793	
8	071	102	107	085	069	038	033	066	081	71°5	86°0	138°0	71°0	81°0	8°0	790	
9	094	085	115	108	071	042	058	085	095	73°5	83°0	90°0	73°0	80°8	1°0	848	
10	129	130	144	130	104	086	081	123	134	72°0	87°0	140°0	71°0	80°7	10°0	868	
11	136	148	162	154	102	100	110	149	144	72°5	87°0	137°0	72°0	80°8	12°0	796	
12	122	142	149	128	083	072	098	109	114	72°0	88°0	141°0	74°0	81°0	12°0	764	
13	087	111	120	120	079	073	073	079	107	73°0	87°5	145°0	72°0	81°1	5°0	829	
14	114	098	106	082	054	045	065	117	200	71°0	88°0	134°5	70°0	81°1	9°5	854	
15	111	125	129	126	098	073	119	139	158	73°0	85°0	141°0	72°0	81°2	6°0	851	
16	140	146	157	149	131	104	115	169	169	72°0	87°0	141°5	71°0	81°4	12°0	818	
17	137	131	132	138	099	082	118	112	123	70°0	87°0	141°0	69°5	81°6	12°5	848	
18	093	103	106	090	057	039	044	070	091	70°0	88°0	112°0	69°0	82°0	10°5	877	
19	062	074	092	064	034	010	035	070	070	71°5	87°0	139°0	70°5	82°1	12°0	796	
20	085	070	080	054	046	025	022	068	070	72°5	90°0	119°5	72°0	82°2	11°5	888	
21	30°023	30°018	048	30°056	30°012	30°017	30°023	032	060	73°0	83°5	137°5	76°0	82°6	2°5	860	
22	29°987	29°999	005	29°988	29°978	29°967	29°987	009	032	72°0	85°0	148°0	70°0	82°2	6°0	782	
23	30°019	30°024	024	30°016	30°007	29°974	30°003	040	062	71°0	87°0	140°0	69°5	82°0	9°5	733	
24	099	101	093	099	088	30°086	093	122	115	74°0	86°0	136°5	72°0	82°0	10°5	796	
25	152	160	159	149	120	118	106	134	132	72°0	90°0	141°5	70°0	81°9	11°5	796	
26	128	127	117	117	079	068	068	085	106	70°5	87°0	97°0	69°0	82°0	11°5	774	
27	127	107	096	082	060	032	030	052	069	70°0	87°0	140°0	68°0	82°0	7°5	829	
28	095	079	065	057	054	026	027	052	148	70°5	89°0	140°0	69°0	82°0	11°5	810	
29	090	089	084	066	062	072	065	114	114	71°5	89°0	140°0	70°5	82°2	9°5	812	
30	122	126	148	114	085	090	079	112	114	73°5	87°0	143°0	72°0	82°5	11°0	854	
31	30°111	30°093	30°098	30°077	30°033	30°031	30°027	30°049	30°077	74°0	90°0	143°0	72°0	82°8	7°0	799	
Mean	30°102	30°104	30°110	30°098	30°070	30°056	30°066	30°094	30°109	71°8	86°8	134°3	70°8	81°5	274°5	810	

Day.	DRY-BULB AND WET-BULB THERMOMETERS.																	
	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	72°0	71°0	78°0	75°0	82°5	76°0	83°8	76°0	83°0	77°0	83°0	75°0	80°2	74°2	77°0	78°5	75°0	72°0
2	76°0	73°5	79°0	75°0	81°5	77°0	81°5	76°2	84°0	76°5	79°8	74°0	75°5	73°8	73°3	72°2	73°0	72°0
3	73°0	71°5	78°0	75°0	82°0	77°8	84°2	77°2	85°5	77°0	85°2	76°5	80°0	74°2	78°0	73°2	76°8	72°8
4	74°0	73°0	77°0	74°0	81°0	75°5	85°0	76°0	84°4	77°6	84°0	75°0	81°0	75°0	79°0	74°0	77°0	73°0
5	74°0	73°2	75°5	74°2	79°8	77°2	81°0	76°0	82°8	77°2	81°0	75°0	78°2	73°8	78°2	73°8	77°5	73°5
6	75°0	74°0	78°0	76°8	81°8	76°2	83°0	75°6	84°0	75°0	83°0	74°0	80°0	74°0	78°0	73°5	77°6	73°6
7	76°0	74°0	76°0	75°5	82°0	77°0	84°2	77°0	82°2	77°0	81°0	75°0	79°5	75°0	78°0	74°2	78°0	74°2
8	76°0	75°0	81°0	76°0	81°8	76°8	83°8	76°8	84°6	78°0	83°0	76°5	81°4	75°4	78°6	74°8	77°0	75°0
9	77°5	76°0	82°0	77°0	74°0	73°0	76°0	75°0	77°0	76°0	81°0	77°6	80°2	78°0	77°0	75°0	76°0	75°0
10	75°0	73°4	79°0	76°0	81°5	78°0	84°0	78°6	80°0	75°0	84°0	77°8	81°8	77°8	77°0	75°0	77°0	74°0
11	74°8	74°0	79°0	77°0	81°8	76°8	84°0	77°0	86°0	78°0	85°0	77°0	83°0	77°0	79°0	74°0	78°0	76°2
12	77°6	76°0	81°0	77°0	83°6	76°8	86°0	77°0	86°0	77°0	85°0	77°0	84°0	77°8	80°0	75°0	78°0	75°0
13	75°0	73°8	80°0	76°5	80°2	75°6	77°0	75°0	86°0	78°2	77°0	75°0	78°5	74°2	76°5	73°0	74°2	72°0
14	77°0	74°0	80°0	76°0	82°4	77°6	84°2	78°4	85°0	78°0	85°0	78°0	80°0	75°0	77°0	75°0	77°0	75°0
15	74°0	73°0	79°0	76°0	82°0	78°0	83°6	78°0	84°5	77°5	74°8	73°0	76°8	75°0	75°5	74°5	75°2	74°2
16	74°0	73°0	77°0	75°2	83°5	77°5	84°8	77°8	85°0	77°0	85°0	77°0	80°0	74°8	78°0	74°5	77°0	74°5
17	75°0	74°0	78°0	75°0	83°0	77°0	85°8	78°8	86°2	78°0	85°0	76°0	84°0	77°0	79°0	75°0	77°0	73°5
18	73°5	72°0	77°2	75°0	83°0	76°0	79°5	77°0	83°0	77°0	87°0	79°0	82°2	75°0	78°5	74°2	78°0	74°0
19	74°0	73°0	77°5	75°0	83°0	76°2	84°0	77°0	86°0	77°5	83°0	76°0	82°0	75°5	78°0	74°0	79°0	74°5
20	76°0	73°5	82°0	77°0	86°8	78°8	86°0	79°8	87°0	78°5	87°0	78°0	82°5	76°8	80°0	76°0	79°0	75°0
21	78°0	74°0	82°0	76°5	83°0	78°0	80°5	77°0	82°8	75°2	74°0	78°0	76°0	74°0	74°8	73°0	76°0	73°5
22	75°0	73°0	79°0	75°0	81°2	76°0	84°2	76°8	74°0	73°0	73°5	72°8	74°0	73°0	72°0	71°5	72°0	71°5
23	75°0	73°5	78°0	75°5	82°0	76°5	85°2	76°0	82°2	76°0	85°0	76°0	82°0	76°0	81°0	76°0	77°0	75°0
24	76°5	74°4	81°0	77°0	82°4	77°0	84°0	77°0	83°5	77°0	83°0	76°0	77°0	74°5	75°0	74°0	75°0	74°0
25	74°0	73°0	79°0	77°0	82°5	78°5	84°0	77°0	86°5	78°0	80°0	76°0	79°0	75°0	75°0	73°5	74°0	72°8
26	73°0	72°0	77°5	75°0	81°0	76°2	80°0	75°0	79°6	72°8	81°0	75°0	79°0	75°0	76°8	73°8	74°0	72°4
27	73°0	72°0	76°0	73°0	82°0	76°8	84°0	77°8	85°0	77°0	83°0	76°8	80°0	75°0	78°0	74°0	78°0	74°0
28	71°5	71°0	79°0	75°2	82°0	76°4	84°5	77°5	87°0	78°8	85°0	76°0	82°0	76°0	79°0	74°8	78°5	75°0
29	72°5	71°8	78°5	75°0	84°0	78°5	87°0	78°5	87°0	78°0	83°0	77°0	82°0	76°8	79°0	76°0	78°5	76°0
30	75°0	74°0	78°0	76°0	85°0	79°8	86°0	79°0	85°0	78°2	84°0	76°0	81°5	77°0	79°5	75°0	80°0	75°0
31	76°0	74°5	83°0	78°0	87°0	78°0	88°2	78°6	86°0	78°5	84°0	78°0	82°0	77°0	77°0	74°0	75°0	74°0
Mean	74°8	73°4	78°9	75°7	82°2	77°0	83°5	77°1	83°9	77°0	82°4	75°9	80°2	75°4	77°5	74°2	76°6	73°9

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

JULY 1887.

Day.	UPPER CLOUDS												LOWER CLOUDS											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	2	Cum.	6	E	2	Cum.	4	—	—
2	—	—	—	—	Cir.-s.	1	S	0'3	—	—	—	—	Cum.	6	E	2	Cum.	6	E	2	Cum.	9	E	2
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	—	—	Cum.	4	E	2	Cum.	2	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	—	—	C.N.	9	E	2	Cum.	7	E	3
5	Cir.-c.	2	N	0'3	—	—	—	—	—	—	—	—	C.N.	6	E	3	C.N.	8	E	3	Cum.	7	E	1
6	Cir.-c.	2	E	1	Cir.-c.	2	E	0'5	—	—	—	—	Cum.	6	E	3	Cum.	6	E	3	Cum.	4	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	10	E	2	Cum.	7	E	1
8	Cir.-s.	2	W	0'5	—	—	—	—	—	—	—	—	Cum.	6	E	1	Cum.	7	E	2	C.N.	9	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	1	C.N.	10	E	2	C.N.	8	—	—
10	—	—	—	—	Cir.-s.	2	SE	0'3	—	—	—	—	Cum.	8	E	3	Cum.	5	S	1	Cum.	2	—	—
11	Cir.-c.	3	S	1	—	—	—	—	—	—	—	—	Cum.	2	E	1	Cum.	4	E	2	Cum.	8	E	1
12	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	SE	3	Cum.	6	E	2	Cum.	8	S	1
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	2	Cum.	7	E	2	Cum.	2	—	—
14	Cir.-s.	2	W	0'5	Cir.-s.	1	S	1	—	—	—	—	Cum.	3	E	5	Cum.	6	E	1	C.N.	9	—	—
15	Cir.-c.	4	E	0'5	—	—	—	—	—	—	—	—	Cum.-s.	3	E	3	C.S.N.	10	E	1	C.N.	9	—	—
16	—	—	—	—	Cir.-s.	2	N	1	—	—	—	—	Cum.	6	E	3	Cum.	4	E	2	Cum.	10	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	E	2	Cum.	5	E	2	Cum.	4	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	3	ESE	3	Cum.	8	E	2	Cum.	4	—	—
19	—	—	—	—	Cir.-s.	3	SW	0'5	—	—	—	—	Cum.	6	E	1	Cum.	5	E	2	Cum.	3	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	4	Cum.	8	E	4	C.N.	9	E	2
21	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	2	C.N.	10	E	6	C.N.	9	E	2
22	Cir.-c.	3	E	0'5	—	—	—	—	—	—	—	—	Cum.	4	E	1	Nim.	10	E	3	Cum.	8	E	1
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	E	1	C.N.	9	E	2	—	6	—	—
24	Cir.-c.	2	NE	0'5	Cir.-s.	1	NE	0'5	—	—	—	—	Cum.	5	E	2	Cum.	6	E	2	Cum.	8	ESE	1
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	1	—	—	Cum.-s.	4	E	1	Cum.	3	—	—
26	Cir.-s.	2	W	0'5	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	9	E	2	Cum.	3	—	—
27	Cir.-s.	3	W	0'5	—	—	—	—	—	—	—	—	Cum.	2	—	—	C.S.N.	9	E	1	Cum.	8	E	1
28	Cir.-s.	3	E	0'5	—	—	—	—	—	—	—	—	Cum.	3	—	—	Cum.	8	E	2	Cum.	6	E	2
29	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	1	Cum.	7	E	1	Cum.	7	E	1
30	—	—	—	—	Cir.-s.	3	W	1	—	—	—	—	Cum.	7	E	3	Cum.	4	E	1	Cum.	10	ESE	3
31	—	—	—	—	—	—	—	—	Cir.	2	SW	0'5	Cum.	5	E	1	C.N.	8	E	3	Cum.	6	E	2
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	5'2	—	—	—	7'0	—	2'1	—	6'4	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
1	W 1	ESE 2	ESE 2	NE 2	E 1	miles. 105	ins. .45	D ² n. Fine, with ∞ a. Very fine p. [passing SW. to NE. Dull 6p. $\frac{1}{2}$ (mist)
2	W 1	ESE 2	ESE 3	Calm 0	Calm 0	180	.10	∞ 6a. Fine. ● shower from E. 10a. T in S. 2p. ● ² from E. 3.13p., with K
3	W 1	ESE 2	ESE 2	E 1	Calm 0	74	—	$\frac{1}{2}$ (mist) on swamp and hills a. Fine from 10a., but with ∞ ² .
4	W 1	Calm 0	E 2	NNE 1	Calm 0	130	—	Fine a., but with ∞ ² . ● in E at 10a. Very fine and bright at 8p.
5	W 1	S by W 0'5	ESE 3	E 1	Calm 0	121	.32	● n. $\frac{1}{2}$ (mist) on swamp and hills a. Dull and muggy 10a. K in S. 10a.—2p.
6	W 1	E 3	ESE 3	E 2	E 1	154	.15	$\frac{1}{2}$ (mist) on swamp and hills 6a. Dull 8a. Day fine, but with ∞. Partial $\frac{1}{2}$ 4p.
7	W 1	ESE 3	ESE 2	E 1	Calm 0	120	.82	● a. $\frac{1}{2}$ 7a. Distant T (in N.) 9a. ∞ ² 2p.
8	W 1	ESE 3	ESE 4	E 1	Calm 0	265	.02	Day fine, but with ∞ ² . [K in SE. 8p.
9	W 1	E 2	Calm 0	N 1	Calm 0	170	.70	● showers a. T in E., ● ² 10a., then K in NE. ● till 2p. Dull, with ∞, 6p.
10	W 1	E 2	NE 1	Calm 0	Calm 0	75	.09	$\frac{1}{2}$ (mist) on swamp and hills a. ● from E., with distant T in ESE., lasting
11	WNW 1	ESE 1	ESE 2	E 1	Calm 0	100	.20	$\frac{1}{2}$ (mist) on swamp 6a. Day very fine. [20 minutes, 3p. Very fine from 4p.
12	W 1	ESE 1	ESE 2	ESE 2	Calm 0	120	—	$\frac{1}{2}$ (mist) on N. hills 6a. Day fine, with ∞ ² . [close, with ● p.
13	W 1	ENE 1	NE 1	E 1	Calm 0	185	—	∞ a. T, overhead, 9.50a. K ● ² in N. 11.35a. Distant T in NW. 1p. Sultry and
14	W 1	ESE 1	ESE 2	E 1	Calm 0	90	.19	$\frac{1}{2}$ a. T in S. 10a. Forked < in S. 4p. ● from E., with forked < 7p. Sheet < in W.
15	W 1	SE 1	ESE 2	N 1	Calm 0	132	.04	D ² n. $\frac{1}{2}$ (mist) 6a. Close and sultry a. T ² ● ² in S. and SW. p. $\frac{1}{2}$ (mist) on
16	W 1	ESE 2	ESE 3	E 1	Calm 0	100	—	D ² n. $\frac{1}{2}$ (mist) on swamp. Day fine, but with ∞.
17	W 1	ESE 1	ESE 2	E 2	Calm 0	190	—	$\frac{1}{2}$ (mist) on swamp 6a. Fine all day, with ∞. [with ∞. Sheet < in SW. 10p.
18	Calm 0	ESE 1	SE 1	ENE 1	E 1	115	.06	on swamp 6a. Fine, with ∞ a. Close and muggy, with ● showers 2p., then fine,
19	W 1	ESE 2	ESE 2	Calm 0	SE 0'5	100	—	$\frac{1}{2}$ (mist) on swamp 6a. Day very fine. < in W. 10p.
20	W 1	ESE 3	ESE 3	NNE 3	NE 2	160	—	D ² n. $\frac{1}{2}$ (mist) on swamp 6a. Day fine, with ∞ ² . [2p.—3p. ● from E. 8p.
21	E 1	ESE 5	E 5	SE 2	E 2	245	.01	T in SW. noon. Very dark in E. and S. 2p. ● from E., with K passing S. to N.,
22	E 1	ESE 2	SE 2	Calm 0	Calm 0	255	.18	Very fine a. Squally ●, distant T, 2p. Very dull 6p. $\frac{1}{2}$ (mist) on hills.
23	Calm 0	E 2	E 1	E 1	Calm 0	180	.50	Dull a. Short K ² right overhead 0.30p. and 2.30p. Fine from 4p. < in E. 10p.
24	W 1	E 2	E 2	NE 1	Calm 0	180	—	$\frac{1}{2}$ (mist) on swamp 6a. Fine till 4p. Partial $\frac{1}{2}$ 5p., T in SW. ● ² showers 8p.
25	Calm 0	E 1	SE 2	ESE 0'5	Calm 0	125	1'38	$\frac{1}{2}$ (mist) on hills and swamp a. Day very fine. Distant T 4p. [and 10p.
26	Calm 0	ESE 1	E 0'5	E 1	Calm 0	100	—	D ² n. $\frac{1}{2}$ (mist) on swamp 6a. Dull 10a.—2p., with T. Very fine 6p.
27	Calm 0	ESE 0'5	E 1	ENE 0'5	E 1	130	—	D ² n. Very fine till noon. T in SE. 1p. Dull from 4p.
28	W 1	SE 1	ESE 3	ESE 2	Calm 0	120	—	D ² n. Very fine day. A few peals of T 1p.
29	Calm 0	ESE 1	ESE 3	E 1	Calm 0	130	—	D ² n. Very fine a. Distant K 2p., with ● in S. < 8p.
30	W 1	ESE 1	ESE 3	E 1	E 1	150	—	D ² n. $\frac{1}{2}$ (mist) on hills and swamp a. Fine all day, with ∞ p.
31	E 1	E 3	NE 3	NE 2	Calm 0	192	—	$\frac{1}{2}$ (mist) on swamp 6a. Fine till 2p., with ∞ ² , then drizzling ●.
Mean	0'8	1'7	2'2	1'1	0'3	144'9	5'21	

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

AUGUST 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Nim.	10	E	2	Cum.	10	E	1
2	Cir.-c.	3	NW	0.5	Cir.-s.	2	W	0.5	—	—	—	—	Cum.-s.	3	—	—	Cum.	6	E	2	Cum.-s.	6	E	1
3	Cir.-c.	4	W	1	—	—	—	—	—	—	—	—	Cum.	4	E	2	Cum.-s.	9	E	1	Cum.	8	E	1
4	—	—	—	—	Cir.-s.	1	S	0.3	—	—	—	—	Cum.-s.	9	NE	1	Cum.	7	NE	2	Cum.-s.	7	E	1
5	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	—	—	Nim.	10	—	—	Cum.	6	E	1
6	Cir.-c.	1	NE	0.3	—	—	—	—	—	—	—	—	Cum.-s.	5	E	2	Cum.	7	E	1	Cum.	9	E	1
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	2	Cum.	9	E	1	Cum.	8	E	2
8	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	3	Cum.	7	E	2	Cum.	6	E	1
9	—	—	—	—	Cir.	2	SW	0.5	—	—	—	—	Cum.	5	E	1	Cum.	5	E	1	Cum.	7	E	1
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	ESE	1	C.N.	8	E	1	C.N.	8	E	1
11	—	—	—	—	Cir.	2	W	0.5	—	—	—	—	Cum.-s.	6	E	1	Cum.	5	E	1	Cum.	7	E	1
12	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	—	—	Cum.-s.	5	E	1	Cum.	6	E	1
13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	1	Cum.	7	E	1	Cum.	5	E	1
19	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	WSW	1	Cum.	9	SW	1	Cum.	8	S	1
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	6	W	1	Cum.	9	S	2	Cum.	7	E	3
21	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	E	1	Cum.-s.	8	E	1	Cum.	7	E	1
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	E	1	Cum.-s.	10	E	1	Cum.	8	SE	1
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	SE	2	Cum.	9	S	2	Cum.	8	S	1
24	Cir.-s.	4	SW	0.5	Cir.-s.	2	S	0.5	—	—	—	—	Cum.	5	E	1	C.N.	7	E	2	Cum.	8	E	1
25	Cir.-s.	3	SW	0.5	Cir.-s.	2	S	0.5	—	—	—	—	Cum.-s.	3	—	—	Cum.	7	E	1	Cum.	7	E	1
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	2	Cum.-s.	8	E	1	Cum.	8	E	1
27	Cir.-s.	2	SW	0.5	—	—	—	—	—	—	—	—	Cum.	5	E	2	C.N.	9	E	2	Cum.-s.	8	SE	1
28	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	3	Cum.	5	E	3	Cum.	4	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	ESE	4	Cum.	6	ESE	1	Cum.-s.	9	E	1
30	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	SE	3	C.N.	8	E	1	Cum.	8	SE	3
31	—	—	—	—	—	—	—	—	Cir.-s.	4	W	0.5	Cum.-s.	4	SE	2	C.N.	10	S	3	—	—	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Day.	WIND.						Vel.	Rain-fall.	REMARKS.
	Direction and Force.								
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.				
1	E 2	Calm 0	Calm 0	Calm 0	Calm 0	miles. 138	ins. 1.98	● a. Very muggy and close. T in SW. noon. K ² ● ² (about 2 ins.) 0.40p.—2.10p. [Distant T 6p.	
2	Calm 0	S 1	ESE 2	E 1	Calm 0	70	2.06	☼ (mist) on swamp 6a. Day very fine. ● in the S. 4p. [Fine 8p.	
3	W 1	ESE 2	E 2	NE 1	Calm 0	130	—	☼ (mist) on swamp 6a. Fine, with ∞ a. Gloomy 2p. ● 4p. Dull and muggy 6p.	
4	W 1	W 1	E 1	WSW 1	Calm 0	130	*19	☼ (mist) on swamp and hills a. Muggy, with ☼ showers 10a. Fine, with ∞ p. ☼ 5p. [Fine 8p.	
5	Calm 0	NE 1	ESE 2	E 1	Calm 0	105	*15	Day very dull, with ☼ (mist) on hills, and ☼.	
6	W 1	SSE 2	ESE 3	E 1	Calm 0	105	*17	☼ (mist) on N. hills 8a. Day fine, with ∞ ² .	
7	W 1	ESE 2	NNE 2	ENE 1	NNE 2	160	—	Fine, with ∞, till 2p. ☼ showers 4p. Partial ☼ 5p. Fine 8p.	
8	W 1	NE 1	NNE 2	NNE 2	Calm 0	120	*44	Fine, with ∞, a. Muggy, with ☼ showers, 10a. Fine from noon.	
9	W 1	E 1	NNE 2	N 1	Calm 0	90	—	Fine all day. Distant T in SW., < in W. p. [showers 4p. Very dull 6p.	
10	W 1	E 1	ESE 1	E 1	Calm 0	100	—	☼ (mist) on swamp 6a. Dull and close a. Ugly, with K, in SW. 2p. ● ²	
11	W 1	W 1	ESE 2	E 1	E 1	115	*32	☼ (mist) on N. hills a. Day fine, with ∞ ² .	
12	W 1	SSE 1	E 3	ESE 2	Calm 0	150	—	Fine all day, with ∞. < in W. 8p.	
13	—	—	—	—	—	715	*20	—	
14	—	—	—	—	—			—	
15	—	—	—	—	—			—	
16	—	—	—	—	—			—	
17	—	—	—	—	—			—	
18	W 1	WNW 1	NNE 1	W 1	Calm 0	—	—	☼ n. Fine till 8a., then dull till 2p. ∞ ² all day.	
19	W 1	WSW 1	WSW 1	S 1	S 3	155	—	☼ (mist) on hills 6a. Fine a. ∞ ² all day.	
20	E 1	E 1	SE 1	ESE 2	E 1	230	—	Fine all day, with ∞. < in SE. 8p. [< in S. 10p.	
21	E 1	E 1	E 1	E 1	S 1	245	—	☼ (mist) on hills a. Fine till 10a. Sultry noon, with ● T in S. and SE. K in W. 8p.	
22	W 1	ESE 2	ESE 1	E 1	E 0.5	105	—	Day fine, with ∞. [WSW., 8p.	
23	ESE 3	ESE 3	S 3	S 3	Calm 0	190	—	Fine 6a. ☼ (mist) on N. hills 8a. ☼ 1p. Ugly to E. p. < in ENE, T in	
24	E 1	ESE 3	ESE 3	Calm 0	Calm 0	245	*02	Dull 6a. Very fine 10a. Distant T, ● in S., 2p. ● ⁰ 6p. Very still and close 8p.	
25	W 1	ESE 2	ESE 2	NE 1	Calm 0	125	*22	☼ n. ☼ (mist) on swamp 6a. Fine all day. [SSW. 8p.	
26	W 1	S 1	ESE 3	E 1	Calm 0	149	—	Fine a. ☼ showers in S. 2p. Distant T. Very dark and ugly in WSW. 5p. < in	
27	W 1	SE 2	E 1	NNE 1	Calm 0	160	*16	☼ n. ☼ (mist) on swamp and hills 6a. ☼ 8a. ☼ from S. 4p. < ● ² 7p.	
28	W 1	ESE 1	ESE 3	E 2	Calm 0	90	*48	☼ (mist) on hills and swamp a. Dull 10a. Very fine p. [Fine 10p., with ∞.	
29	W 1	SE by E 1	E 2	E 1	Calm 0	155	—	Fine all day. ∞ a. ∞ ² 10p. < in SE. [in S. 4p.	
30	W 1	ESE 1	ESE 3	E 1	Calm 0	160	—	☼ (mist) on swamp 6a. Fine a. ∞ ² 10a. Distant T 2p. Dull and ugly, with T,	
31	ENE 1	E 2	Calm 0	NNE 1	Calm 0	165	—	☼ n. ☼ (mist) on hills 6a. Fine a. Close and muggy, with ● ⁰ 2p., T ● ² to W. [Distant T in W. 6p. ∞ ² 8p.	
Mean	—	—	—	—	—	138.8	6.39	—	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

SEPTEMBER 1887.

Day.	BAROMETER.									TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.									Shade.		Radiation.		Earth.		Noon.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.			
1	ins. 29° 955	ins. 29° 963	ins. 29° 978	ins. 29° 963	ins. 29° 923	ins. 29° 890	ins. 29° 907	ins. 29° 942	ins. 29° 964	74° 0	92° 0	144° 0	72° 0	83° 8	10° 0	ins. ° 774
2	29° 974	29° 998	30° 024	29° 992	° 963	° 935	29° 958	29° 996	30° 005	76° 0	90° 0	150° 0	72° 5	84° 0	12° 0	° 815
3	30° 016	30° 051	° 082	30° 053	° 999	° 974	30° 006	30° 044	° 062	75° 5	91° 5	143° 0	72° 0	84° 0	12° 0	° 761
4	° 085	° 089	° 070	° 060	° 999	29° 996	30° 009	° 066	° 080	73° 0	90° 0	140° 0	71° 5	84° 0	12° 0	° 883
5	° 055	° 058	° 060	° 042	° 997	30° 006	29° 994	30° 026	° 132	72° 0	89° 5	142° 0	70° 0	84° 1	8° 5	° 837
6	° 061	° 073	° 034	° 004	° 954	29° 955	° 965	29° 982	° 005	71° 0	88° 5	142° 0	69° 0	84° 2	12° 0	° 815
7	° 011	° 020	° 032	° 004	° 941	° 930	° 936	29° 977	° 010	72° 5	91° 5	142° 0	71° 0	84° 2	11° 0	° 848
8	° 031	° 044	° 033	° 018	° 990	° 980	29° 988	30° 005	° 015	74° 0	91° 5	142° 0	71° 5	84° 5	12° 1	° 854
9	° 032	° 032	° 057	° 033	29° 999	29° 999	30° 012	° 060	° 065	75° 0	90° 0	153° 0	74° 0	84° 6	10° 5	° 843
10	° 079	° 066	° 082	° 066	30° 033	30° 007	30° 016	° 029	° 060	74° 0	90° 0	151° 0	72° 5	84° 8	11° 0	° 777
11	° 115	° 092	° 088	° 042	30° 015	29° 991	29° 991	° 044	° 067	75° 0	87° 0	112° 0	70° 5	84° 8	1° 5	° 834
12	° 037	° 054	° 033	° 015	29° 968	° 970	° 993	30° 004	30° 005	73° 0	83° 0	110° 0	72° 5	84° 3	1° 5	° 785
13	30° 037	° 026	° 023	30° 014	° 962	° 936	° 951	29° 992	29° 984	70° 5	89° 0	136° 0	70° 5	84° 0	2° 5	° 796
14	29° 976	° 007	° 004	29° 978	° 932	° 930	° 943	° 970	30° 007	68° 0	89° 0	147° 0	67° 0	83° 5	10° 0	° 774
15	29° 993	° 023	° 036	30° 022	° 978	° 960	° 988	29° 998	° 003	72° 5	90° 5	140° 0	71° 0	83° 3	7° 0	° 749
16	30° 013	° 018	° 014	29° 998	° 949	° 974	° 976	30° 020	° 020	75° 5	92° 0	144° 0	72° 0	83° 2	6° 0	° 863
17	29° 994	° 030	° 043	29° 999	° 961	° 969	° 993	° 020	° 035	77° 0	92° 5	147° 0	75° 0	83° 4	9° 5	° 871
18	30° 043	° 050	° 047	30° 011	29° 983	° 977	° 983	30° 015	30° 010	70° 0	90° 0	115° 0	70° 0	83° 4	8° 0	° 909
19	° 040	° 032	° 043	30° 020	30° 001	° 950	° 971	29° 973	29° 979	70° 0	88° 0	—	69° 0	83° 0	4° 0	° 810
20	30° 012	30° 007	30° 012	29° 982	29° 937	° 926	° 927	° 956	° 960	70° 0	92° 0	145° 0	69° 5	82° 9	9° 5	° 774
21	29° 990	29° 980	29° 983	° 949	° 892	° 883	° 929	° 912	° 916	71° 5	90° 0	147° 0	70° 5	82° 9	10° 5	° 788
22	° 935	° 932	° 900	° 900	° 825	° 825	° 837	° 873	° 896	71° 5	95° 0	142° 0	70° 5	82° 9	10° 5	° 754
23	° 862	° 915	° 902	° 895	° 846	° 857	° 876	° 882	° 918	72° 5	94° 0	146° 0	71° 0	83° 0	11° 5	° 826
24	29° 975	29° 968	° 961	° 926	° 916	° 917	° 932	° 972	° 986	77° 0	94° 0	148° 0	74° 5	83° 0	11° 5	° 808
25	30° 028	30° 013	° 998	° 969	° 916	° 927	° 941	° 968	° 982	70° 5	96° 5	150° 0	69° 0	83° 0	8° 5	° 837
26	29° 943	29° 975	° 960	° 925	° 879	° 910	° 910	° 941	° 954	71° 5	93° 0	147° 0	70° 0	83° 0	6° 0	° 779
27	° 978	29° 964	29° 985	29° 956	° 920	° 920	29° 923	29° 971	29° 979	71° 0	89° 0	152° 0	70° 5	82° 7	3° 5	° 871
28	29° 991	30° 033	30° 038	30° 003	29° 998	° 977	30° 000	30° 032	30° 031	70° 5	85° 5	122° 0	71° 0	82° 2	1° 0	° 840
29	30° 023	30° 052	° 068	30° 059	30° 026	° 973	29° 976	30° 013	29° 999	69° 0	86° 0	—	69° 0	82° 0	3° 5	° 918
30	29° 998	29° 987	30° 011	29° 954	29° 934	29° 927	29° 970	29° 971	30° 050	68° 0	89° 0	147° 0	67° 5	81° 7	11° 5	° 930
Mean	30° 009	30° 018	30° 020	29° 995	29° 955	29° 946	29° 960	29° 988	30° 006	72° 4	90° 3	—	70° 9	83° 5	248° 6	° 824

DRY-BULB AND WET-BULB THERMOMETERS.

DRY-BULB AND WET-BULB THERMOMETERS.																		
Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	76° 0	74° 5	80° 5	77° 0	84° 0	78° 4	88° 0	78° 0	86° 5	78° 0	86° 6	78° 6	85° 0	76° 0	82° 0	77° 0	81° 5	76° 5
2	77° 0	75° 0	82° 0	77° 0	84° 8	78° 0	87° 8	78° 8	87° 0	80° 0	87° 0	78° 0	83° 0	77° 0	79° 0	75° 0	78° 5	75° 5
3	77° 0	74° 8	80° 0	77° 0	84° 8	77° 8	89° 0	78° 0	87° 0	79° 0	86° 5	79° 0	84° 0	76° 5	80° 0	75° 4	80° 0	76° 0
4	76° 0	74° 0	80° 0	77° 0	84° 0	77° 6	84° 4	79° 0	87° 0	79° 0	85° 0	79° 0	81° 0	75° 0	78° 0	74° 0	76° 0	74° 5
5	73° 5	72° 0	79° 0	76° 0	87° 0	79° 0	87° 0	79° 0	85° 2	78° 0	79° 0	76° 0	81° 0	77° 0	76° 8	73° 0	77° 0	73° 0
6	74° 5	73° 0	80° 0	76° 5	85° 4	79° 0	86° 0	78° 2	86° 0	78° 0	84° 6	78° 0	82° 0	76° 8	80° 0	76° 0	80° 0	76° 0
7	76° 0	75° 0	82° 0	78° 2	85° 6	78° 6	89° 0	80° 0	88° 0	80° 0	86° 0	79° 8	82° 0	77° 6	30° 0	77° 2	79° 0	76° 5
8	76° 4	74° 8	83° 8	80° 0	87° 0	80° 2	84° 5	78° 5	89° 0	80° 0	86° 0	77° 5	83° 0	77° 0	81° 0	77° 0	81° 0	77° 0
9	77° 0	75° 6	81° 0	79° 0	86° 0	79° 0	87° 2	79° 2	86° 2	80° 0	86° 0	78° 5	82° 6	77° 0	79° 0	75° 0	78° 0	74° 5
10	76° 4	74° 5	82° 2	77° 0	86° 0	79° 0	86° 2	77° 4	86° 4	79° 0	88° 0	77° 0	82° 0	75° 0	80° 0	76° 0	79° 0	75° 0
11	75° 4	74° 0	81° 0	78° 2	83° 8	79° 0	76° 8	75° 0	82° 2	78° 2	82° 0	78° 0	82° 6	77° 4	78° 5	76° 5	78° 0	76° 5
12	75° 0	74° 0	77° 0	76° 0	82° 6	78° 0	82° 0	76° 0	81° 8	77° 0	80° 5	75° 0	77° 6	75° 6	77° 0	74° 0	76° 5	74° 0
13	72° 0	71° 0	73° 0	71° 5	82° 5	76° 0	84° 0	77° 0	84° 0	78° 0	83° 0	77° 0	79° 8	77° 6	76° 0	74° 0	74° 5	73° 0
14	70° 5	69° 5	77° 0	74° 6	87° 0	79° 8	88° 0	78° 0	85° 0	78° 5	83° 0	78° 0	81° 0	75° 4	79° 0	75° 0	78° 0	75° 0
15	73° 0	72° 0	79° 0	77° 0	84° 5	78° 5	87° 0	77° 0	85° 0	77° 0	84° 0	77° 4	80° 5	76° 0	78° 0	74° 2	77° 5	74° 0
16	76° 5	75° 0	83° 0	79° 0	87° 0	80° 0	89° 5	80° 5	89° 0	80° 0	81° 0	78° 0	79° 0	76° 5	79° 0	77° 0	78° 5	77° 0
17	79° 0	76° 5	83° 6	78° 2	86° 8	79° 0	90° 5	81° 0	87° 5	78° 0	86° 0	80° 0	81° 0	77° 2	77° 8	75° 0	77° 0	75° 0
18	74° 0	72° 5	80° 0	76° 0	85° 0	79° 0	78° 8	77° 4	79° 0	77° 2	83° 2	80° 0	80° 6	75° 4	77° 6	74° 0	75° 0	73° 2
19	73° 5	71° 0	76° 8	74° 9	82° 0	77° 0	78° 0	75° 0	78° 0	75° 4	85° 0	78° 0	78° 8	75° 0	78° 0	74° 8	75° 5	74° 0
20	74° 0	72° 4	78° 0	76° 5	86° 0	78° 5	88° 0	78° 0	88° 0	79° 0	84° 8	78° 0	81° 0	76° 0	80° 0	76° 0	78° 0	75° 8
21	74° 5	73° 0	81° 0	77° 6	88° 0	80° 2	88° 5	78° 5	86° 0	77° 8	85° 0	78° 0	80° 5	76° 5	79° 0	75° 0	79° 0	75° 0
22	75° 4	73° 0	78° 0	76° 4	89° 0	78° 8	88° 0	77° 5	91° 0	81° 0	91° 0	80° 5	84° 0	78° 0	77° 2	75° 0	77° 0	74° 0
23	75° 0	74° 0	85° 0	79° 0	89° 5	80° 0	90° 5	80° 0	91° 5	79° 5	84° 5	78° 8	83° 0	78° 0	82° 0	77° 0	79° 0	76° 0
24	78° 0	77° 0	83° 0	77° 0	90° 4	80° 2	91° 6	80° 0	92° 0	80° 2	90° 0	79° 5	85° 0	78° 8	83° 0	78° 0	82° 2	77° 5
25	73° 4	71° 0	84° 0	79° 0	88° 0	80° 0	89° 0	79° 8	94° 5	81° 0	84° 0	78° 8	79° 0	76° 0	74° 0	73° 0	74° 0	73° 0
26	74° 0	73° 0	82° 0	78° 0	88° 2	81° 0	91° 2	79° 2	87° 0	79° 0	79° 8	76° 5	79° 0	77° 0	78° 2	76° 0	76° 0	75° 0
27	73° 5	72° 0	78° 0	76° 0	87° 2	80° 0	85° 0	79° 0	79° 2	76° 0	80° 0	76° 2	78° 5	76° 8	77° 0	75° 0	74° 0	73° 0
28	72° 0	71° 0	75° 6	75° 0	79° 0	76° 2	83° 0	77° 6	77° 0	75° 0	77° 8	75° 0	76° 8	75° 0	72° 5	73° 2	72° 0	72° 0
29	72° 0	71° 0	78° 0	76° 0	84° 0	78° 0	84° 0	79° 6	77° 5	76° 5	79° 0	76° 8	76° 8	76° 0	73° 8	73° 0	72° 0	70° 6
30	71° 0	69° 6	75° 2	74° 0	85° 0	79° 9	87° 0	81° 0	86° 8	79° 8	85° 0	77° 0	80° 0	75° 5	77° 1	73° 6	78° 0	74° 0
Mean	74° 7	73° 2	80° 0	76° 8	85° 7	78° 9	86° 3	78° 4	85° 7	78° 5	84° 1	77° 9	81° 0	76° 5	78° 4	75° 2	77° 4	74° 7

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

SEPTEMBER 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	—	—	Cum.	8	S	4	—	0	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	Cum.	8	S	2	Cum.	2	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	SE	4	Cum.	5	SE	2	Cum.	7	ESE	1
4	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	ENE	3	Cum.	8	E	1	Cum.	8	E	1
5	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	E	1	C.N.	9	E	1	Cum.	2	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	1	Cum.-s.	7	E	1	Cum.	4	E	1
7	Cir.	2	S	0.5	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	Cum.	6	S	2	Cum.	7	S	2
8	Cir.-c.	2	E	1	—	—	—	—	—	—	—	—	Cum.	4	—	—	Cum.-s.	8	SE	1	Cum.	4	—	—
9	—	—	—	—	Cir.-s.	3	E	0.5	—	—	—	—	Cum.-s.	7	E	2	C.N.	4	E	2	Cum.	5	E	2
10	Cir.-c.	3	SE	0.3	Cir.-c.	2	SE	0.3	—	—	—	—	Cum.	4	E	2	Cum.	5	E	1	Cum.	4	E	1
11	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	1	C.N.	9	E	1	Cum.	7	E	1
12	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	1	Cum.-s.	9	E	1	Cum.	5	E	1
13	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	9	E	2	Cum.	5	E	1
14	—	—	—	—	Cir.-s.	2	SE	0.3	—	—	—	—	Cum.-s.	3	—	—	C.N.	6	E	1	Cum.	9	E	1
15	—	—	—	—	Cir.-s.	2	W	0.5	—	—	—	—	Cum.-s.	3	—	—	Cum.	6	SSE	2	Cum.	6	SE	1
16	Cir.-c.	1	W	0.5	—	—	—	—	—	—	—	—	Cum.-s.	5	S	2	C.N.	7	S	2	Cum.	6	SE	1
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.	5	SE	1	Cum.	4	—	—
18	Cir.-s.	2	W	0.3	—	—	—	—	—	—	—	—	Cum.	4	E	2	C.N.	9	E	2	Cum.	2	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	2	C.N.	9	E	2	Cum.	2	—	—
20	Cir.-s.	3	S	0.3	—	—	—	—	—	—	—	—	Cum.	3	E	2	Cum.	8	SE	1	Cum.	6	SE	1
21	Cir.-s.	2	W	0.3	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	7	SE	1	Cum.	8	SE	1
22	Cir.-s.	3	W	1	—	—	—	—	—	—	—	—	Cum.	3	—	—	Cum.	3	W	1	Cum.	9	SW	1
23	Cir.-s.	2	W	0.5	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	6	SW	1	Cum.	8	S	1
24	Cir.-s.	2	SW	0.3	—	—	—	—	—	—	—	—	Cum.	4	W	1	Cum.	6	SSW	2	Cum.	8	SW	1
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	WSW	2	Cum.	6	S	1	Cum.-s.	8	S	1
26	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	—	—	C.N.	9	W	1	Cum.	8	S	1
27	Cir.-c.	1	W	1	—	—	—	—	—	—	—	—	Cum.	1	—	—	Cum.-s.	9	E	2	Cum.	4	—	—
28	Cir.-c.	1	SW	0.5	—	—	—	—	Cir.-c.	1	S	0.5	Cum.	5	NE	1	Nim.	10	—	0	Cum.	3	—	—
29	Cir.-c.	4	S	1	—	—	—	—	—	—	—	—	Cum.	3	—	—	Nim.	10	—	0	Cum.	4	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	—	—	Cum.	8	E	1	Cum.	5	E	1
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	4.4	—	—	—	7.3	—	1.4	—	5.3	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
						miles.	ins.	
1	E 1	ESE 3	ESE 3	SSE 2	ESE 3	185	.25	☼ ⁰ (mist) on swamp and N. hills a. Day fine, with ☼ ² .
2	E 1	E 2	ESE 2	E 1	Calm 0	200	—	☼ n. Fine all day, with ☼ till 4p.
3	ENE 1	E 1	E 3	E 2	E 1	150	—	☼ n. ☼ ⁰ (mist) on swamp and N. hills 6a. Very fine day.
4	W 1	E 2	ESE 3	E 1	Calm 0	170	.17	☼ ⁰ (mist) on swamp 6a. Fine all day. ☼ 4p. ☼ 10p.
5	NW 1	ESE 1	NNE 1	ENE 1	Calm 0	200	—	☼ n. Fine till noon. Ugly in SW., ☼ ² in ENE. 2p. ☼ showers 4p., then fine. ☼ in W. 8p.
6	W 1	SW 1	ESE 2	E 2	E 1	150	.15	☼ n. Fine all day. ☼ in E. 8p., in ESE. 10p.
7	W 1	E 1	ESE 3	E 2	Calm 0	100	—	☼ n. Fine all day. ☼ in W. 8p. and 10p.
8	W 1	E 1	ESE 3	E 1	E 1	140	—	☼ n. ☼ ⁰ (mist) on N. hills a. Fine all day. Distant T in ESE. noon. ☼ in ESE. p.
9	W 1	E 2	ESE 2	E 1	Calm 0	200	.17	☼ n. Fine all day. ☼ in S. noon. Very thundery looking in S. 2p. ☼ in W. 8p.
10	E 2	E 2	E 2	E 1	Calm 0	160	—	☼ ⁰ (mist) on swamp 6a. Fine all day. Ugly in SW. 4p. ☼ in SW. 8p. and 10p.
11	W 1	E 1	ESE 1	NE 1	Calm 0	204	.32	☼ ⁰ (mist) on hills a. Dull a. ☼ K noon. Very close and muggy p. ☼ in SW. 8p.
12	Calm 0	ESE 2	E 1	E 1	Calm 0	125	.61	☼ ² T n. ☼ ⁰ 8a. Ugly in E. 10a., with T. Dull and close p. ☼ ² ☼ 8p.
13	E 1	ESE 1	E 1	Calm 0	Calm 0	164	.85	☼ till 8a., then fine till noon. Very muggy, with ☼ showers, 2p. Very dull 4p. ☼
14	Calm 0	ESE 1	ESE 1	NNE 1	Calm 0	160	—	Fine a. T in SW. 1p. ☼ 2.30p. ☼ in ENE. 4p. Dull 6p. ☼ in E. 8p. [8p. Fine 10p.
15	Calm 0	ESE 2	ESE 2	E 1	E 1	190	.20	☼ n. ☼ ⁰ (mist) on swamp and N. hills a. Fine all day. ☼ in E. 8p., a few peals T.
16	E 1	ESE 2	ESE 2	ENE 1	Calm 0	150	—	☼ ⁰ (mist) on swamp and hills 6a. Fine till 2p. ☼ ² 3p. T in S. Dull 6p. Fine 8p.
17	W 1	ESE 2	E 1	NE 1	Calm 0	145	.35	☼ ⁰ (mist) on N. hills 6a. Fine till 4p. ☼ 5p. Dull 6p. K ² 7p. Fine 8p. ☼ in ESE.
18	W 1	SSE 1	Calm 0	NNE 1	Calm 0	155	—	☼ ⁰ (mist) 6a. Fine till 10a. ☼ from E., noon. Very muggy, 2p., ☼ ² ☼ in E. 8p.
19	W 1	SSE 1	Calm 0	Calm 0	Calm 0	50	1.40	☼ ⁰ (mist) on swamp and hills a. Muggy, with ☼ showers p. ☼ 4p., then fine. ☼ in E. 8p.
20	W 1	SSE 1	E 2	NNE 1	Calm 0	60	—	☼ ⁰ (mist) on swamp 6a. Fine all day. ☼ in W. 6p. and 10p.
21	W 1	SSE 1	ESE 3	E 2	Calm 0	100	—	Fine all day. ☼ showers in S. and ESE. p. ☼ in NW. 8p. ☼ 10p. [with ☼ in W.
22	W 1	ESE 2	SbyE 1	E 1	Calm 0	140	—	Fine till 6p., then ugly in NW. K ² ☼ ² to N., moving to E., 6p.—6.40p. Very fine 8p.,
23	WNW 1	SSE 1	ESE 2	E 1	Calm 0	85	.33	☼ ⁰ (mist) on swamp 6a. Day very fine. ☼ in N. 8p. and 10p. (Earthquake 6.50a.)
24	W 1	SbyE 1	S 2	S 1	Calm 0	105	—	☼ ⁰ (mist) on swamp 6a. Fine all day. ☼ in N. 8p. and 10p.
25	W 1	SSE 1	ESE 1	NNW 1	Calm 0	150	.49	Very fine till 2p. K ² ☼ ² in W., moving to ENE., 4p.—8p. K in ENE. 10p.
26	W 1	S 1	ESE 2	Calm 0	Calm 0	85	.60	☼ ⁰ (mist) on swamp 6a. Very fine till noon. T in SW. 2p. ☼ from E., K 3p.
27	W 1	Calm 0	ESE 1	NW 1	Calm 0	100	.42	☼ ² in NW. 10a. K ² (right overhead, passing W. to E.) ☼ 11a.—noon. Red sunset.
28	W 1	Calm 0	E 1	ENE 1	Calm 0	65	.30	☼ n. ☼ T in E. 8a. Day very dull, with ☼ ⁰ (mist). T in S. 4p. Red sunset.
29	W 1	E 1	Calm 0	W 1	Calm 0	100	.26	☼ ⁰ (mist) on swamp and hills a. and 8p. ☼ showers during day. Very dull 6p. Very
30	W 1	SSW 1	E 3	NE 1	Calm 0	90	.65	☼ to S. and W. till 8a. Day very fine. ☼ in S., ☼ in SSE. 10p. [fine 8p.
Mean	0.9	1.3	1.7	1.1	0.2	135.9	7.52	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

OCTOBER 1887.

Day.	BAROMETER.										TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Noon.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.				
1	ins. 29° 977	ins. 29° 975	ins. 29° 989	ins. 29° 957.	ins. 29° 914	ins. 29° 901	ins. 29° 915	ins. 29° 963	ins. 29° 990	74° 5	89° 5	142° 0	73° 0	81° 8	hours. 11° 5	ins. 807	
2	29° 990	29° 976	30° 000	29° 984	95° 0	93° 5	94° 5	95° 9	97° 6	70° 5	88° 5	142° 0	69° 5	81° 8	11° 0	716	
3	30° 003	30° 038	30° 022	30° 007	944	942	95° 6	95° 0	95° 0	71° 0	89° 0	142° 0	69° 5	81° 8	1° 5	793	
4	29° 952	29° 990	29° 972	29° 948	918	892	904	949	957	74° 0	90° 0	120° 0	72° 5	81° 8	5° 0	830	
5	92° 5	93° 3	90° 5	91° 6	87° 5	91° 1	89° 8	92° 7	93° 5	70° 5	92° 0	144° 0	70° 0	81° 8	7° 5	860	
6	98° 9	97° 3	96° 0	95° 8	944	95° 5	98° 0	99° 8	99° 6	70° 5	86° 0	98° 0	70° 5	81° 8	5° 5	840	
7	99° 5	98° 5	98° 6	95° 3	902	91° 8	91° 9	92° 5	92° 6	70° 0	87° 0	142° 0	70° 5	81° 2	7° 5	840	
8	94° 5	95° 7	94° 1	91° 2	882	862	89° 3	92° 6	95° 0	70° 0	86° 0	132° 0	70° 0	81° 1	9° 5	840	
9	96° 0	97° 9	96° 0	92° 7	892	90° 2	93° 0	96° 2	99° 3	70° 0	90° 0	144° 0	69° 5	81° 0	10° 5	721	
10	94° 1	96° 4	96° 0	93° 0	90° 7	91° 1	92° 4	95° 2	94° 6	70° 0	90° 0	146° 0	69° 0	81° 0	10° 5	738	
11	93° 9	95° 8	94° 8	90° 7	86° 9	88° 8	89° 6	92° 5	29° 957	70° 0	87° 0	141° 0	69° 5	81° 0	8° 0	837	
12	93° 7	29° 934	29° 935	29° 931	924	94° 1	93° 7	29° 974	30° 001	74° 0	87° 0	150° 5	70° 5	81° 0	6° 0	846	
13	96° 3	30° 001	30° 028	30° 065	994	97° 1	99° 1	30° 029	30° 029	71° 0	88° 0	144° 0	70° 0	81° 0	9° 5	790	
14	97° 8	29° 996	29° 990	29° 954	922	92° 6	92° 9	29° 975	29° 976	71° 0	90° 5	143° 0	70° 0	81° 1	10° 5	807	
15	96° 8	30° 006	29° 962	29° 964	935	92° 6	96° 1	30° 001	30° 014	71° 0	87° 0	150° 0	69° 0	81° 1	11° 0	779	
16	29° 989	01° 6	30° 026	30° 003	96° 0	95° 3	97° 1	29° 974	29° 976	70° 0	88° 0	146° 0	68° 0	81° 4	10° 5	857	
17	30° 001	30° 029	04° 8	29° 985	95° 7	94° 0	95° 1	97° 6	96° 8	70° 0	91° 0	145° 0	69° 0	81° 4	10° 5	829	
18	29° 970	29° 987	01° 5	97° 2	94° 1	92° 3	92° 3	94° 8	97° 0	68° 5	87° 0	145° 0	67° 5	81° 6	10° 5	793	
19	96° 1	29° 991	00° 9	98° 7	93° 7	91° 5	93° 7	29° 979	29° 996	68° 5	89° 0	132° 0	68° 0	81° 7	11° 0	801	
20	97° 8	30° 009	30° 012	97° 4	93° 9	95° 9	96° 1	30° 001	30° 011	67° 5	89° 0	144° 5	65° 0	81° 5	11° 5	706	
21	96° 9	29° 998	29° 984	93° 2	90° 7	90° 4	92° 4	29° 974	29° 990	68° 0	89° 0	143° 5	66° 0	81° 3	11° 0	779	
22	29° 977	30° 001	29° 984	29° 969	942	95° 7	95° 2	29° 998	29° 998	69° 5	90° 0	144° 0	68° 0	81° 2	11° 0	820	
23	30° 027	02° 9	30° 043	30° 018	29° 981	99° 3	29° 994	30° 026	30° 026	70° 0	91° 0	147° 0	69° 0	81° 2	11° 0	943	
24	02° 1	06° 1	07° 4	03° 6	30° 008	992	30° 000	03° 8	05° 4	69° 5	90° 0	147° 5	69° 0	81° 5	6° 0	897	
25	03° 1	04° 1	06° 1	03° 0	29° 969	29° 974	29° 998	02° 4	02° 6	70° 0	88° 0	119° 0	69° 0	81° 8	3° 5	834	
26	03° 1	08° 5	06° 5	03° 2	29° 994	30° 001	30° 006	04° 4	06° 3	74° 0	88° 0	148° 0	70° 0	82° 0	11° 0	657	
27	05° 9	11° 0	09° 5	06° 8	30° 045	30° 051	30° 045	07° 6	07° 9	67° 5	87° 5	132° 0	65° 0	81° 9	10° 5	848	
28	30° 070	07° 7	07° 4	30° 054	29° 988	29° 993	29° 993	30° 017	30° 027	70° 0	86° 0	138° 0	70° 0	81° 8	8° 0	848	
29	29° 993	30° 030	02° 1	29° 980	94° 0	92° 3	91° 4	29° 955	29° 969	67° 5	86° 5	144° 0	67° 0	81° 8	11° 0	697	
30	29° 973	29° 982	06° 3	29° 942	90° 6	91° 1	92° 0	95° 8	29° 974	72° 5	90° 0	143° 0	69° 0	81° 8	11° 5	823	
31	30° 002	30° 028	30° 016	30° 013	29° 945	29° 947	29° 968	29° 998	30° 009	70° 4	88° 6	140° 2	69° 1	81° 5	284° 5	808	
Mean	29° 984	30° 004	30° 005	29° 978	29° 940	29° 939	29° 949	29° 981	29° 991	70° 4	88° 6	140° 2	69° 1	81° 5	284° 5	808	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	76°0	74°4	79°0	77°0	86°8	80°0	86°0	78°0	86°0	77°0	85°0	77°0	81°0	75°0	79°0	74°0	77°5	74°0
2	73°0	71°4	79°0	77°0	85°0	78°5	85°0	76°5	87°0	75°5	85°0	77°5	81°8	76°8	79°0	73°5	77°0	73°0
3	73°0	72°0	82°0	77°0	86°0	80°0	86°2	79°2	85°8	77°0	86°0	79°0	80°5	74°8	79°8	74°0	79°5	74°0
4	76°0	75°0	77°0	75°0	85°8	81°0	79°0	75°0	79°0	75°5	79°0	77°0	76°5	73°0	76°0	74°0	74°8	74°0
5	72°0	71°0	77°0	74°0	84°0	78°0	87°4	79°0	85°0	80°0	73°0	71°5	73°0	71°5	75°0	72°0	73°0	72°0
6	73°0	72°0	81°0	78°0	85°0	79°0	83°0	78°0	76°0	74°5	76°0	75°0	74°0	73°0	73°8	72°6	73°8	72°5
7	72°0	71°0	75°0	74°0	82°0	76°0	84°0	78°0	85°0	78°0	81°0	77°0	78°0	75°8	76°5	75°0	75°0	74°0
8	73°0	72°0	74°6	73°8	85°0	80°0	84°0	78°0	83°8	78°0	83°0	74°0	78°0	74°0	77°8	74°2	76°0	74°0
9	74°0	72°0	79°0	76°0	86°0	79°0	86°0	76°0	84°2	76°5	81°0	76°0	79°8	75°0	77°0	74°0	75°8	73°2
10	73°0	72°0	78°8	76°0	86°5	76°2	89°5	80°0	84°9	76°9	81°4	76°0	77°5	74°0	77°0	74°0	76°5	74°0
11	73°0	72°0	84°0	78°0	84°8	78°0	84°9	76°0	84°0	77°8	79°0	75°0	77°0	75°0	76°8	73°8	78°0	75°0
12	75°0	73°0	80°5	76°4	83°4	76°0	85°9	78°6	85°0	78°8	80°0	74°6	77°5	73°2	76°0	73°0	77°5	74°0
13	75°5	72°0	81°0	76°0	83°0	76°0	86°5	79°0	73°0	74°0	76°8	74°0	74°8	73°0	74°5	72°5	74°5	72°4
14	75°0	73°4	81°3	76°5	84°0	77°0	87°0	73°0	86°3	78°0	80°0	75°0	78°0	74°8	78°0	74°2	77°2	74°2
15	74°0	72°6	79°8	76°6	85°9	78°7	86°0	78°0	86°0	78°0	81°8	77°0	79°2	75°0	79°0	74°0	77°0	74°0
16	73°0	71°6	79°8	76°8	83°2	78°0	85°0	77°0	82°0	76°5	83°0	75°0	78°0	73°0	77°6	73°0	76°8	73°0
17	72°0	71°0	79°7	76°0	87°9	78°7	87°9	79°8	86°0	80°0	82°0	76°0	78°5	75°0	77°0	73°0	76°2	73°0
18	72°0	71°0	75°4	73°8	81°5	75°5	84°8	78°0	83°0	77°0	80°2	73°8	78°0	74°0	77°0	73°4	75°0	73°0
19	73°0	72°0	77°5	75°0	81°0	75°0	79°0	76°0	83°0	75°0	84°0	75°5	78°0	74°0	76°0	71°0	72°2	70°0
20	68°3	68°0	76°2	73°0	83°0	77°8	85°0	77°5	85°0	75°4	81°8	73°0	78°5	72°0	76°0	71°4	76°5	70°0
21	72°0	70°5	77°9	75°9	84°0	74°9	84°0	74°9	87°0	74°0	86°0	75°0	79°5	72°0	77°5	71°0	76°0	71°4
22	72°0	70°0	77°0	73°5	86°0	77°8	87°0	77°8	87°0	78°0	81°0	73°8	79°0	73°8	78°0	73°0	77°0	73°0
23	73°0	71°4	75°0	73°0	83°0	77°0	85°2	78°0	84°0	75°0	83°0	76°0	79°0	74°0	76°0	73°0	77°0	74°0
24	71°5	71°0	77°4	75°0	80°0	77°0	86°3	81°0	83°0	77°0	81°5	78°0	77°0	75°0	75°0	73°5	75°0	73°5
25	73°0	72°0	79°8	77°0	82°0	78°0	86°2	80°0	85°0	78°0	83°8	76°0	79°0	75°0	78°0	74°0	77°0	73°5
26	71°8	71°0	76°0	74°5	85°4	79°0	79°2	76°0	83°0	76°0	81°0	75°0	78°0	74°0	75°5	73°5	78°0	74°0
27	71°5	71°0	83°2	72°0	85°0	74°0	85°0	74°0	83°8	75°0	80°0	74°8	78°0	74°0	76°0	71°6	76°2	72°2
28	69°0	68°0	78°2	75°0	78°2	75°0	83°8	78°0	81°2	75°2	78°5	74°0	76°0	73°4	75°8	72°4	75°0	72°0
29	72°7	71°9	76°4	74°8	79°0	76°0	84°0	78°2	84°0	77°0	79°8	74°0	77°0	72°2	75°2	71°0	74°0	70°0
30	72°0	71°0	81°0	74°0	83°0	74°0	85°0	75°0	85°0	76°5	83°2	76°8	79°0	74°5	80°0	75°0	80°0	75°5
31	73°8	72°0	81°0	75°8	85°0	78°0	85°0	78°0	88°5	78°5	83°5	76°5	81°0	77°0	78°2	75°2	78°2	75°2
Mean	73°0	71°6	78°7	75°3	83°9	77°4	84°9	77°6	84°0	76°7	81°3	75°4	78°1	74°0	76°9	73°2	76°2	73°1

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

OCTOBER 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	Cir.-c.	2	S	0.3	—	—	—	—	—	—	—	—	Cum.	3	—	—	Cum.	7	E	1	Cum.	6	E	1
2	—	—	—	—	—	—	—	—	Cir.-s.	6	N	1	Cum.	4	—	—	Cum.	5	E	1	Cum.	2	—	—
3	Cir.	3	W	0.3	—	—	—	—	Cir.-c.	4	E	0.5	Cum.-s.	3	—	—	Cum.	9	E	1	Cum.	5	E	1
4	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	10	SW	1	C.N.	10	S	1	Cum.	8	E	1
5	Cir.-c.	3	W	0.5	—	—	—	—	—	—	—	—	Cum.-s.	4	E	1	C.N.	8	E	1	Cum.	9	E	1
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	SE	0.5	Nim.	10	—	0	Cum.	10	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	9	E	1	Cum.	7	E	1
8	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	8	E	1	Cum.	5	E	1
9	Cir.-s.	3	W	1	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	9	S	1	Cum.	1	—	—
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	8	W	1	C.N.	8	W	0.5	Cum.	7	SW	1
11	Cir.-c.	2	SE	0.5	—	—	—	—	—	—	—	—	Cum.-s.	4	SE	1	C.N.	7	SE	3	Cum.	1	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	C.N.	9	SE	2	Cum.	3	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Nim.	10	—	2	C.N.	8	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	C.N.	7	SE	2	—	3	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	—	—	Cum.	7	E	2	Cum.	2	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	9	E	2	Cum.	1	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	7	E	1	C.N.	8	E	1	Cum.	2	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	1	—	—	Cum.	7	E	2	Cum.	1	—	—
19	—	—	—	—	Cir.-c.	2	W	0.5	—	—	—	—	Cum.	7	ENE	2	Cum.	5	E	1	Cum.	2	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	1	—	—	Cum.	5	N	1	Cum.	9	N	1
21	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	6	SW	2	Cum.	8	W	1
22	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	6	S	2	Cum.-s.	4	—	—
23	—	—	—	—	Cir.-c.	2	N	0.5	—	—	—	—	Cum.	9	ENE	2	Cum.	6	NE	2	Cum.	8	ENE	2
24	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	9	E	2	C.N.	10	—	0	Cum.	8	NE	1
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	3	Cum.	7	E	2	Cum.	5	E	1
26	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	E	1	C.N.	8	E	2	Cum.	7	E	1
27	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	4	E	1	Cum.	8	E	3	Cum.	8	ENE	1
28	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	E	2	Cum.	8	E	2	Cum.	10	E	1
29	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	Cum.	8	E	1	Cum.	8	W	1
30	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	4	SW	1	Cum.	4	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	S	2	Cum.	7	S	2	Cum.	8	SE	1
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	4.7	—	—	—	7.6	—	1.5	—	5.5	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
1	W 1	SE 1	ESE 1	E 1	Calm 0	miles, 90	ins. .07	Δ ² n. ☼ ⁰ (mist) on swamp 6a. Day very fine. < in N. 8p.
2	W 1	E 2	E 3	Calm 0	Calm 0	150	—	☼ ⁰ (mist) on swamp 6a. ∞ till 10a. Fine all day.
3	W 1	ESE 2	E 2	Calm 0	Calm 0	125	—	☼ ⁰ (mist) on swamp 6a. Very fine a. Distant T in SW. 4p. Red sunset. K in S. 7p
4	W 1	SW 1	Calm 0	NE 1	Calm 0	115	—	☼ ⁰ (mist) on hills a. Day dull. K ² ☼ ² in W. passing S. to N., 11.30a.—1p.
5	W 1	E 1	SSW 1	Calm 0	Calm 0	105	.08	Distant K ² ☼ ² in S., passing to W. 1p. ☼ ² from E. 2p. K overhead 3p. K in
6	Calm 0	Calm 0	Calm 0	Calm 0	Calm 0	90	.28	K ☼ ² in SW. passing to NW., noon. K ☼ ² 2p. ☼ ² till 6p. < in SE. 8p. [SW. 10p.
7	Calm 0	SbyE 1	E 2	E 1	Calm 0	65	.65	☼ ² till 8a. ☼ ⁰ (mist) on N. hills 10a. Very ugly in SSW., with T ² p. ☼ ² p.
8	Calm 0	SSW 1	E 2	Calm 0	Calm 0	80	.34	☼ ⁰ 6a. ☼ ⁰ (mist) on swamp and valleys 8a. Dull and close a. ∞ p. < in S. [8p.
9	W 1	SSE 1	NNE 2	NNE 1	Calm 0	110	—	☼ ⁰ (mist) on swamp 6a. Fine till noon. Dull 2p., with ☼ ⁰ showers in S.
10	Calm 0	SSE 1	E 3	Calm 0	Calm 0	100	—	Δ ² n. ☼ ⁰ on swamp and S. hills 6a. ☼ ⁰ (mist), on N. hills 8a.—10a. T ☼ ⁰ in S. 2p.
11	W 0.5	SSE 1	ESE 2	Calm 0	Calm 0	115	—	Fine till noon. ☼ ⁰ T in S. 2p. Dull, with ☼ ⁰ (mist) on N. hills, ugly in SW. ☼ ⁰
12	ENE 1	E 1	S 2	E 1	SE 0.5	155	—	☼ ⁰ (mist) on N. hills 6a. Fine till noon. ☼ ⁰ in S. p. Very fine 8p. < in SE. 10p.
13	E 1	ESE 2	E 2	Calm 0	Calm 0	190	—	Very fine a. ☼ ⁰ for a few minutes, ending in ☼ ⁰ 1.15p. K ☼ ⁰ 3p. ☼ ⁰ (mist) on [hills 6p.
14	Calm 0	ESE 2	ESE 2	E 1	Calm 0	150	.27	Very fine a. ☼ ⁰ in ESE. noon. ☼ ⁰ in S. 2p. Fine p. < in N. 8p.
15	Calm 0	SSE 1	E 2	EbyN 1	NE 0.5	115	.02	☼ ⁰ (mist) on swamp 6a. ∞ 8a. Day very fine. ☼ ⁰ showers in S. 4p. [SSE. 8p.
16	W 1	SSW 1	E 2	Calm 0	Calm 0	105	—	☼ ⁰ (mist) 6a. Fine, with ∞, a. Close and sultry at noon, with ☼ ⁰ in S. < in
17	W 1	S 1	NNE 1	Calm 0	Calm 0	85	.30	☼ ⁰ (mist) 6a. Fine a., with ∞. ☼ ⁰ in N. noon. Very close and muggy till 4p.
18	Calm 0	NE 1	ESE 1	NE 1	Calm 0	90	.14	Δ ² n. ☼ ⁰ (mist) on swamp and hills 6a. Fine, with ∞ 8a. ☼ ⁰ S. p. < in S. 8p.
19	W 1	Calm 0	E 1	NE 1	Calm 0	115	.10	☼ ⁰ (mist) on swamp 6a. Fine, with ∞, 8a. Muggy 10a. ☼ ² shower from E., noon.
20	W 1	W 1	E 1	NE 1	Calm 0	75	.27	Δ ² n. ☼ ⁰ (mist) on swamp 6a. ∞ 8a. Fine all day. Very fine p. [Very fine p.
21	W 1	SSW 0.5	E 1	NNE 1	Calm 0	125	—	☼ ⁰ (mist) on swamp 6a. Very fine day.
22	WNW 1	SSE 1	NE 1	NNE 1	Calm 0	100	—	Very fine all day.
23	W 1	S 0.5	NE 2	NE 1	Calm 0	105	—	Fine till noon, then clouds got low, with ☼ ⁰ . Very fine p.
24	W 1	W 1	Calm 0	W 0.5	Calm 0	100	.03	☼ ⁰ 6a. ☼ ⁰ (mist) on hills, with clouds low, a. Dull and muggy till 8p., then fine.
25	WSW 1	SSE 1	E 1	E 1	Calm 0	75	.44	☼ ⁰ 6a. ☼ ⁰ (mist) on N. hills 8a. ☼ ⁰ from E. 10a. Muggy 2p. ☼ ⁰ 4p., then fine.
26	W 0.5	S 1	E 2	Calm 0	ENE 1	105	.20	☼ ⁰ showers a. Dull and muggy 10a. ☼ ⁰ noon. ☼ ⁰ 4p. ☼ ⁰ in S. 8p. K in S. 10p.
27	E 2	E 3	E 2	ENE 1	Calm 0	185	.28	Fine and fresh 6a. Very fine till 10a. ☼ ⁰ in S. 2p. Very fine 4p. Gustly 8p.
28	W 1	E 1	E 1	ENE 1	Calm 0	115	.09	Δ ² n. ☼ ⁰ (mist) on swamp 6a. Fine, with ∞, 8a. Muggy 10a. Dull and close p.
29	Calm 0	W 1	E 1	ENE 1	Calm 0	75	.10	Dull and muggy a., with low clouds and ☼ ⁰ showers. Very fine p. [☼ ⁰ 3p. ☼ ⁰ in S.
30	W 1	E 1	E 1	Calm 0	S 1	120	—	☼ ⁰ (mist) on swamp 6a. Day very fine.
31	WSW 1	E 1	E 2	S 2	SE 1	130	—	Day very fine. ☼ ⁰ in S. at 2p.
Mean	0.7	1.1	1.5	0.6	0.1	111.6	3.66	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

NOVEMBER 1887.

Day.	BAROMETER.										TEMPERATURE.					SUN-SHINE.	Vapour
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.										Shade.		Radiation.		Earth.		Tension.
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.	Noon.			
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	°	°	°	°	°	hours.	ins.	
1	30°024	30°029	30°014	29°990	29°958	29°948	29°958	30°020	30°014	75°0	87°5	136°0	72°0	82°0	8°0	834	
2	29°975	29°978	29°995	952	918	918	928	29°939	29°949	70°5	91°5	145°0	69°0	82°1	9°5	829	
3	977	29°988	30°010	969	928	915	939	973	979	70°0	88°0	144°0	69°0	82°2	10°5	843	
4	29°995	30°002	29°974	29°949	948	955	961	29°974	29°979	68°5	88°0	150°0	68°0	82°4	9°5	639	
5	30°017	089	30°045	30°010	972	960	980	30°009	30°019	70°5	89°0	142°0	69°4	82°6	11°0	857	
6	30°025	035	046	30°024	975	965	971	30°007	30°007	69°5	91°0	156°0	67°0	82°8	11°0	820	
7	29°999	000	30°013	29°980	956	952	941	29°939	29°981	68°0	88°0	140°0	66°0	82°9	5°0	801	
8	965	30°002	29°987	961	919	919	895	929	942	72°5	81°0	—	72°0	82°8	0°0	801	
9	917	29°937	976	950	882	885	895	945	940	70°5	88°0	114°0	70°5	82°8	6°0	848	
10	955	982	29°980	958	910	926	946	976	979	70°5	88°0	147°0	70°0	82°2	9°5	782	
11	965	991	30°003	960	904	906	919	945	961	70°0	89°5	140°0	68°5	82°2	8°5	823	
12	943	961	29°958	910	872	865	887	904	918	71°0	91°0	149°0	70°0	82°2	10°5	792	
13	980	29°975	29°984	29°972	931	932	959	29°971	29°974	68°5	87°0	139°0	67°5	82°2	11°0	701	
14	29°993	30°035	30°046	30°011	965	976	979	30°005	30°023	71°0	87°0	100°0	70°5	82°2	3°5	860	
15	30°016	30°026	30°022	29°977	919	915	930	29°968	29°980	69°0	88°0	142°0	69°0	82°2	10°5	764	
16	29°965	29°979	29°988	29°974	941	942	29°953	29°991	30°007	69°0	89°0	139°0	67°5	82°2	10°5	790	
17	30°000	30°018	30°042	30°029	29°992	994	30°005	30°033	045	71°0	79°4	—	70°0	82°2	0°1	865	
18	30°043	048	085	30°037	30°005	990	30°006	30°023	30°004	69°5	85°0	122°0	68°0	82°0	2°5	840	
19	29°992	33°007	30°023	29°990	29°918	918	29°923	29°957	29°965	68°0	85°0	138°5	66°0	81°0	8°5	733	
20	948	29°966	29°970	958	910	923	923	949	966	68°5	88°0	142°0	67°5	81°0	10°5	785	
21	971	29°995	30°001	29°977	29°956	29°937	29°932	29°973	29°979	69°0	88°0	143°0	67°5	81°1	9°0	823	
22	29°953	30°019	060	30°061	30°018	30°020	30°025	30°043	30°057	68°5	81°0	100°0	68°0	81°0	5°5	718	
23	30°026	30°045	30°049	30°023	29°979	29°977	29°993	29°999	29°999	69°5	79°0	105°0	69°0	80°6	1°0	657	
24	29°967	29°968	29°979	29°944	908	912	961	965	935	68°5	81°0	120°0	68°0	80°0	6°5	785	
25	937	30°003	960	941	904	905	927	934	945	67°0	85°0	149°0	65°5	79°6	4°0	699	
26	913	29°919	901	918	865	861	874	890	877	67°0	84°0	—	67°0	79°2	5°5	756	
27	886	900	892	873	802	786	826	898	921	66°0	88°0	—	65°0	79°0	8°0	851	
28	889	895	915	894	853	842	871	888	926	66°5	88°0	—	66°0	78°8	10°5	744	
29	929	938	955	911	865	860	859	877	880	73°0	86°0	—	70°0	79°0	11°0	779	
30	29°869	29°895	29°843	29°791	29°766	29°760	29°773	29°804	29°819	68°0	92°0	—	66°0	79°1	7°5	718	
Mean	29°966	29°986	29°991	29°963	29°921	29°919	29°931	29°958	29°966	69°5	86°6	—	68°3	81°4	224°6	784	

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	77°0	74°8	81°0	76°0	82°0	76°4	83°0	77°5	85°5	78°0	85°0	76°3	80°0	76°0	80°5	77°0	79°5	76°5
2	73°0	72°0	85°0	78°0	86°0	78°0	89°0	79°6	90°0	80°0	81°0	76°0	80°0	76°5	77°0	75°2	76°5	74°0
3	71°0	70°0	77°6	75°0	86°0	79°0	86°0	78°8	86°0	75°8	86°0	74°8	80°0	74°8	77°0	73°0	76°0	72°5
4	70°5	70°0	75°0	73°4	82°0	76°0	85°0	73°5	86°0	79°0	82°4	77°0	77°8	75°0	76°0	74°2	75°0	72°6
5	72°0	71°0	77°8	75°4	86°0	79°2	85°5	78°5	87°0	76°0	83°0	76°5	80°0	76°2	77°7	74°0	75°4	73°0
6	72°0	71°0	76°0	73°8	86°5	78°5	86°2	78°4	85°0	76°5	83°0	75°5	79°0	75°0	77°0	73°0	75°8	72°8
7	69°0	68°2	77°0	73°0	85°0	79°2	83°0	76°8	78°0	75°0	77°7	73°8	77°0	73°5	77°0	74°0	76°5	74°0
8	73°8	73°0	72°8	71°2	75°0	74°0	76°0	74°0	80°0	75°4	79°0	76°8	76°8	73°2	75°0	73°4	74°2	73°0
9	72°2	71°9	75°8	74°0	80°2	77°5	81°0	77°0	83°0	77°0	80°0	76°3	78°6	75°0	76°0	75°0	75°0	73°5
10	72°0	71°0	77°5	75°2	85°0	78°0	84°2	76°8	83°2	78°0	79°8	75°6	77°0	75°0	76°2	74°0	76°0	74°0
11	72°0	71°0	79°0	76°2	83°2	76°0	85°0	78°0	87°0	78°0	80°9	75°8	79°0	75°0	79°0	76°0	78°0	75°4
12	73°0	72°0	78°0	74°8	85°2	79°0	86°5	77°8	87°0	77°0	83°2	76°0	79°0	74°0	78°0	73°0	77°0	72°8
13	71°0	70°0	79°8	74°8	85°2	78°0	84°0	74°8	85°0	75°0	82°4	74°6	78°6	73°0	76°8	73°0	75°6	73°0
14	72°4	71°4	78°0	75°5	79°0	76°6	79°0	76°5	81°8	76°0	76°5	73°0	76°4	73°8	75°0	73°6	73°0	72°0
15	70°5	69°4	78°5	75°8	86°0	80°2	86°0	77°0	87°0	77°0	83°5	77°0	79°0	75°0	78°0	75°0	76°5	73°0
16	72°0	71°0	78°5	75°0	83°0	76°0	87°9	78°3	82°0	75°9	83°0	76°0	77°0	78°0	77°0	74°6	76°0	74°2
17	72°8	72°0	73°2	72°2	78°0	75°0	79°0	76°6	79°4	75°8	75°5	73°0	74°8	73°2	74°0	72°2	73°2	72°2
18	73°0	72°0	74°9	73°4	76°8	74°8	76°5	75°0	80°0	75°0	76°5	74°8	75°4	74°0	73°0	72°0	72°0	70°8
19	69°0	68°2	77°0	73°0	82°0	78°0	83°0	75°2	83°0	76°0	80°6	75°8	77°0	74°4	76°2	73°2	76°2	74°0
20	72°0	71°0	76°0	74°0	81°0	76°0	86°0	77°5	82°0	76°0	80°0	75°2	78°3	75°0	75°0	73°0	75°2	73°0
21	70°8	70°0	74°8	73°2	81°0	77°2	85°0	78°0	83°0	76°4	82°6	77°6	79°8	75°0	78°0	75°0	76°0	74°4
22	70°6	69°8	72°0	71°0	76°0	73°8	75°0	71°8	79°0	74°0	75°2	73°0	74°0	72°0	73°2	71°8	73°8	72°2
23	70°2	69°8	72°0	71°0	74°0	73°0	77°0	71°0	77°5	74°0	77°0	73°0	74°5	72°0	73°2	71°9	72°8	71°6
24	72°5	71°0	78°4	73°8	77°2	73°6	79°5	75°0	78°0	73°0	77°0	73°0	74°0	71°0	73°0	70°0	72°0	69°0
25	70°0	69°0	71°0	70°0	77°0	73°8	82°0	74°0	78°5	72°5	76°2	71°2	75°0	71°0	74°6	71°0	74°5	70°8
26	68°8	68°0	72°5	71°0	83°5	81°0	81°0	75°0	81°0	74°0	75°0	73°0	74°0	71°6	72°0	71°0	71°6	70°0
27	69°0	68°2	69°2	68°5	77°0	74°0	85°0	78°6	86°8	77°9	84°0	75°8	73°0	73°0	71°8	72°0	72°0	70°6
28	68°0	67°0	73°0	71°6	78°6	78°0	81°0	74°7	86°0	77°0	83°9	74°0	79°0	71°8	77°0	73°0	78°0	73°5
29	75°5	73°0	76°8	73°0	77°0	73°0	81°8	75°8	84°9	74°8	83°0	78°0	79°5	73°0	78°0	73°0	77°0	73°2
30	72°0	69°0	77°0	71°0	83°0	74°0	87°5	76°5	88°5	76°2	82°5	73°4	78°0	74°0	76°5	72°0	75°0	72°0
Mean	71°6	70°5	76°2	73°5	81°2	76°4	82°9	76°3	83°4	76°4	80°5	75°0	77°5	73°8	76°0	73°3	75°2	72°8

Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.—SANCHEZ, SAN DOMINGO.

NOVEMBER 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	Cir.-s.	2	S	0.3	—	—	—	—	Cum.-s.	10	W	1	Cum.	5	W	1	Cum.	8	S	3
2	Cir.-s.	2	E	0.3	—	—	—	—	—	—	—	—	Cum.	1	—	—	Cum.	6	S	2	Cum.	9	S	1
3	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	1	—	—	Cum.	7	SE	2	Cum.	3	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	3	—	—	Cum.	8	S	2	Cum.	9	SE	1
5	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.	6	SE	3	Cum.	6	S	2
6	Cir.	2	N	0.3	—	—	—	—	—	—	—	—	Cum.	2	—	—	Cum.	8	E	2	Cum.	2	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	4	—	—	C.N.	10	—	3	Nim.	10	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.-s.	10	E	2	Cum.	10	—	—
9	—	—	—	—	Cir.-c.	2	N	0.3	—	—	—	—	Cum.-s.	9	W	0.5	Cum.	7	W	1	Nim.	10	—	—
10	Cir.	4	NNW	0.5	Cir.-c.	4	N	1	—	—	—	—	Cum.-s.	3	—	—	C.S.N.	5	S	1	Cum.	3	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	2	—	—	Cum.	7	S	2	Cum.	5	S	1
12	Cir.-c.	1	N	0.5	Cir.	3	NE	0.5	—	—	—	—	Cum.-s.	4	N	2	Cum.	4	WNW	2	Cum.	9	W	1
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	N	2	Cum.	6	NNE	3	Cum.	2	—	—
14	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	8	S	1	C.N.	10	—	2	Cum.	8	—	—
15	—	—	—	—	Cir.	2	W	0.5	—	—	—	—	Cum.	3	—	—	Cum.	5	E	1	Cum.	3	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.	8	NNE	1	Nim.	10	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.-s.	10	E	1	C.N.	10	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	10	E	3	Cum.	2	—	—
19	Cir.	4	W	1	—	—	—	—	—	—	—	—	Cum.-s.	3	—	—	Cum.	6	SE	2	Cum.	8	S	1
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	2	—	—	C.N.	8	S	1	Cum.-s.	8	E	1
21	Cir.	1	SW	0.5	—	—	—	—	—	—	—	—	C.N.	7	E	1	Cum.-s.	8	SE	1	Cum.	8	SW	1
22	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	10	N	1	C.N.	10	NE	3	C.N.	10	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	C.N.	10	E	3	C.N.	10	E	3
24	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	9	NE	4	Cum.	10	NNE	3	Cum.	7	NE	4
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.-s.	9	NNE	4	Cum.	8	NNE	3	C.N.	10	N	5
26	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	NE	3	C.N.	9	NNW	4	Cum.	6	NNW	3
27	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	7	W	2	Cum.	10	S	1
28	—	—	—	—	Cir.-c.	2	W	1	—	—	—	—	Cum.-s.	9	SW	3	Cum.	4	SW	3	Cum.	9	S	5
29	—	—	—	—	Cir.	2	W	1	—	—	—	—	Cum.	8	S	3	Cum.	6	S	2	—	0	—	—
30	Cir.	2	W	0.3	Cir.-c.	3	WNW	1	—	—	—	—	Cum.	2	—	—	Cum.-s.	6	W	2	Cum.	9	N	5
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.0	—	—	—	7.5	—	2.1	—	7.1	—	—

Day.	WIND.					Vel.	Rain-fall.	REMARKS.
	Direction and Force.							
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.			
1	ENE 1	E 1	E 2	ENE 1	SSE 1	miles. 205	ins. —	~ (mist) on N. hills, 6a. Dull till noon, then very fine.
2	W 1	E 1	SE 1	Calm 0	Calm 0	100	—	Very fine till 4p. ● 7p. Ugly appearance in W. 10p.
3	Calm 0	SbyW 1	ESE 3	NE 1	Calm 0	95	*10	~ (mist) on swamp 6a. Fine all day. Three flashes of forked < 5p.
4	WNW 1	ESE 2	ESE 2	ENE 0.5	Calm 0	105	—	~ (mist) on swamp and hills 6a. Fine, with ∞, 8a. ● in S. 10a.—2p. Distant T [in SW. 4p.
5	WNW 1	SSW 1	ESE 2	Calm 0	Calm 0	110	—	~ (mist) on swamp 6a. ∞ a. Fine all day.
6	W 1	SSE 1	ENE 1	NE 1	Calm 0	105	—	~ (mist) on swamp 6a. Day very fine. < in S. 6p.
7	Calm 0	S 1	E 2	E 0.5	Calm 0	85	—	~ (mist) on swamp 6a. Day dull and muggy, with ● showers.
8	Calm 0	Calm 0	E 1	ENE 0.5	Calm 0	85	1.33	● all past n., and till 10a. Dull all day. ~ (mist) on hills p. [7.30p.—8p., then ● Red sunrise. Distant T in E. p. < in S., ● from E., 6p. K ² in W. passing N.
9	WNW 1	Calm 0	ESE 2	ENE 1	Calm 0	75	*06	~ (mist) on swamp and N. hills a. Very fine till 2p. Partial ~ 4p. Distant T in S.
10	W 1	SE 0.5	E 3	E 1	Calm 0	120	*14	~ (mist) on swamp 6a. Very fine a. ● showers in S. 2p. < in S. 8p.
11	Calm 0	ESE 2	E 2	ENE 1	Calm 0	125	—	~ (mist) on swamp and N. hills a. Day very fine. ~ (mist) on NW. hills 4p.
12	NW 1	SE 1	W 2	N 2	N 1	100	—	Fine a. Very fine p.
13	W 1	SW 1	NNE 2	ENE 1	Calm 0	175	—	~ (mist) on swamp 6a. Ugly in E., ● in S. 8a. Day dull and muggy, with ●
14	NW 1	Calm 0	NNE 2	E 1	Calm 0	75	—	~ (mist) on swamp and hills a. Day very fine. < in W. from 8p. [showers.
15	W 1	W 1	E 1	E 1	Calm 0	75	*30	~ (mist) on swamp 6a. Fine till 4p., then ●
16	W 1	Calm 0	ENE 1	N 2	Calm 0	100	—	Day dull and muggy, with ●
17	E 1	Calm 0	E 1	Calm 0	Calm 0	80	*81	● 2 n. Day dull and muggy, with ● from E.
18	Calm 0	SSE 0.5	E 2	Calm 0	Calm 0	75	2.15	~ on swamp and S. hills a. Day fine, with ∞.
19	Calm 0	SE 1	ESE 2	E 1	Calm 0	55	*04	~ (mist) on swamp 6a. Very fine 10a. ● in S. noon. ~ (mist) on N. hills 4p.
20	Calm 0	SSE 1	SE 2	E 1	Calm 0	140	—	~ to W. and S. a. Day fine. < in NW. 6p. < 8p. [Red sunset.
21	W 1	S 1	E 1	Calm 0	Calm 0	95	—	Dull 6a. ~ (mist) on hills 8a. ● 10a. Muggy p., with drizzling ●
22	WNW 1	W 1	NW 1	Calm 0	Calm 0	140	—	Drifting wet ~ (mist) 6a. Day dull and muggy, with ●. Very ugly at 6p.
23	W 1	NNE 1	ENE 1	ESE 2	Calm 0	95	1.23	● a. ~ (mist) on N. hills 8a. Sultry at noon. ● to W. 4p. ● 6p.—8p.
24	NNE 1	Calm 0	NNW 2	NNE 1	E 1	110	*68	● showers till 2p. Partial ~ 8a. ~ (mist) on N. hills, with ● in W. 4p. Fine 6p.
25	SSW 1	SSW 1	N 2	W 1	W 1	85	*60	[< in SW. ● 10p.
26	W 1	W 2	NNW 1	Calm 0	Calm 0	165	*43	Squally ● showers all day. ~ Very fine 8p.
27	W 1	W 1	E 1	NbyE 1	Calm 0	60	*10	~ (mist) till 8a. Very fine till 4p. ● 6p., with distant K ² in W. ● at 8p., with
28	Calm 0	ESE 1	SbyW 3	SSE 2	ESE 3	130	*12	~ (mist) a. Red sunrise. Very fine from 10a. ● in S. 2p. Red Str. in S. 6p.
29	ESE 2	E 2	SSE 3	ESE 2	ESE 3	285	—	Fine and fresh a. Red sunrise. ● in S. 10a. Very fine noon—8p., then ∞.
30	E 1	W 1	SSE 1	Calm 0	Calm 0	245	—	Fine, with ∞, till noon. Dull and gloomy 2p.—6p. Fine 8p.
Mean	0.8	0.9	1.7	0.9	0.3	116.5	8.09	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.

DECEMBER 1887.

Day.	BAROMETER.									TEMPERATURE.					Sun- SHINE.	Vapour Tension.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.									Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.			Noon.
1	ins. 29°830	ins. 29°830	ins. 29°873	ins. 29°863	ins. 29°844	ins. 29°833	ins. 29°853	ins. 29°887	ins. 29°909	69°0	83°0	—	66°5	79°2	hours. 10°5	ins. °562
2	°953	29°948	29°969	29°961	29°935	29°937	29°989	30°018	30°018	64°0	78°0	—	62°0	79°0	5°5	°624
3	29°982	30°004	30°077	30°057	30°029	30°026	30°029	°049	°072	64°0	80°0	—	62°0	78°2	4°5	°462
4	30°064	°084	°098	°047	°031	°026	°037	°039	°033	62°5	80°0	—	59°5	77°8	4°0	°598
5	°034	°034	°043	°032	°002	°013	°021	°032	°043	62°0	80°0	—	60°5	77°0	4°5	°611
6	°044	°053	°060	°059	°007	°026	°036	°048	°074	61°5	80°0	—	60°0	76°8	4°0	°673
7	°088	°089	°143	°109	°073	°069	°067	°079	°115	61°5	82°0	—	59°0	76°4	9°0	°635
8	°112	°130	°137	°099	°044	°034	°038	°074	°095	61°5	84°0	—	59°5	76°2	10°5	°554
9	°068	°089	°107	°071	°012	°003	°028	°042	°033	63°0	85°0	—	60°5	76°5	9°0	°689
10	°088	°078	°100	°068	°020	°015	°032	°040	°052	65°0	84°5	—	62°5	76°8	10°0	°741
11	°069	°060	°093	°041	°015	°023	°032	°053	°065	67°5	82°0	—	67°0	77°0	10°0	°716
12	°040	°081	°128	°098	°062	°053	°050	°087	°109	66°5	82°0	—	64°5	77°5	4°5	°857
13	°089	°094	°125	°091	°037	°056	°093	°100	°100	66°0	81°0	—	64°5	77°5	8°0	°697
14	°107	°113	°129	°105	°059	°058	°064	°072	°095	66°0	82°0	—	64°5	77°5	3°0	°644
15	°066	°102	°106	°069	°025	°017	°006	°049	°069	64°5	85°0	—	62°5	77°1	9°5	°721
16	°045	°078	°082	°049	30°011	30°005	30°002	°037	°040	60°5	86°0	—	58°0	77°0	10°5	°671
17	°030	°036	°050	°017	29°951	29°960	29°982	°013	°035	62°0	83°0	—	60°0	77°0	10°5	°639
18	°070	°079	°067	°070	30°020	30°005	30°047	°047	°043	64°0	85°0	—	61°5	77°0	11°0	°756
19	°105	°131	°147	°120	°070	°074	°091	°123	°137	66°5	85°0	—	65°0	77°4	11°0	°756
20	°102	°133	°145	°113	°056	°063	°080	°096	°126	67°0	83°5	—	66°0	77°8	10°5	°706
21	°112	°136	°143	°114	°062	°055	°062	°083	°093	65°0	83°0	—	63°0	77°0	8°5	°731
22	°110	°124	°123	°085	°035	°039	°047	°062	°087	65°5	82°0	—	63°0	78°0	10°5	°657
23	°065	°092	°119	°095	°014	°043	°044	°041	°039	63°0	85°0	—	61°0	78°0	10°0	°741
24	°048	°087	°086	°058	°008	30°007	°011	°038	°043	69°0	85°0	—	67°0	78°2	11°0	°718
25	°056	°087	°106	°068	°012	29°994	°015	°061	°067	65°5	86°0	—	63°0	78°5	8°0	°749
26	°042	°061	°105	°046	°018	30°025	°025	°049	°056	68°0	86°0	—	66°0	78°8	6°0	°777
27	°062	°124	°120	°114	°066	°059	°116	°111	°097	65°0	84°0	—	63°5	79°0	10°0	°706
28	°148	°171	°177	°150	°096	°105	°119	°163	°163	65°0	81°0	—	64°0	79°0	5°5	°684
29	°200	°182	°175	°166	°094	°076	°095	°104	°132	67°0	84°5	—	65°0	79°1	6°0	°749
30	°120	°129	°138	°118	°068	°035	°040	°081	°093	68°0	85°0	—	66°0	79°1	9°5	°807
31	30°110	30°138	30°159	30°126	30°092	30°073	30°106	30°135	30°141	63°5	85°0	—	61°5	79°3	7°0	°749
Mean	30°066	30°083	30°101	30°074	30°028	30°025	30°039	30°061	30°073	64°8	83°1	—	62°9	77°8	252°0	°690

DRY-BULB AND WET-BULB THERMOMETERS.

Day.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.
1	72°0	68°0	74°0	69°0	78°8	70°4	81°5	70°0	81°0	71°8	79°0	71°0	74°0	68°5	72°2	67°2	69°0	66°0
2	68°0	65°0	71°0	68°0	72°0	69°5	74°0	69°0	74°0	69°2	73°5	70°0	69°0	67°0	68°5	67°2	67°5	66°5
3	66°5	65°0	66°0	65°2	73°0	65°0	76°8	65°0	76°0	65°0	73°6	64°0	69°0	64°0	70°0	63°8	68°5	64°5
4	65°8	63°8	68°5	65°0	70°8	67°0	74°5	68°5	77°0	69°5	74°0	67°8	72°0	64°0	71°5	63°0	70°0	65°0
5	65°0	63°8	65°5	64°5	70°8	67°8	71°8	67°8	78°8	69°8	73°4	67°5	71°5	66°0	69°5	64°8	70°6	65°2
6	64°0	62°8	65°0	63°5	74°6	69°0	71°0	69°0	79°0	72°0	71°0	67°6	70°0	66°4	69°0	66°2	69°2	67°2
7	64°0	63°0	65°5	64°2	73°0	69°0	77°2	70°5	77°4	67°3	75°0	67°5	73°0	67°0	70°8	66°0	70°0	66°0
8	63°0	62°0	68°0	65°0	75°0	70°0	82°0	70°0	82°0	71°0	78°5	69°6	73°0	68°0	71°5	68°0	70°0	67°5
9	64°0	62°9	66°2	64°9	75°0	70°2	82°0	75°8	79°0	74°0	79°0	72°0	75°0	70°0	74°0	70°0	74°2	70°2
10	66°0	64°5	69°0	67°0	81°0	74°2	82°0	75°0	81°0	72°0	79°7	73°0	76°0	71°2	75°0	70°5	74°5	72°5
11	74°0	73°0	75°0	73°5	80°0	75°0	81°0	74°0	81°0	73°5	80°0	74°0	76°0	74°0	74°5	70°5	75°0	71°0
12	74°0	73°4	71°0	70°0	74°0	71°2	78°0	76°0	78°9	74°2	77°2	72°9	74°0	74°3	73°0	69°2	72°0	69°0
13	68°0	67°0	70°8	68°8	77°0	72°5	77°0	72°0	77°0	72°0	79°0	70°8	72°2	68°0	71°0	68°0	70°8	67°8
14	67°0	66°0	71°0	70°0	76°8	70°0	75°8	70°4	73°0	69°5	73°5	70°8	71°5	70°0	71°6	69°5	70°0	69°0
15	66°5	66°0	69°0	68°0	75°7	70°4	83°4	75°0	77°9	70°0	76°0	68°0	72°0	67°0	70°5	67°0	69°0	66°0
16	63°0	62°0	67°0	65°5	76°4	71°4	84°0	74°0	78°0	69°4	78°9	69°9	73°0	64°0	72°0	67°0	70°5	67°0
17	64°0	63°0	67°0	65°0	77°0	71°2	88°8	71°2	78°7	73°0	79°0	72°0	75°0	71°0	73°5	70°5	72°0	69°0
18	67°0	66°0	71°8	69°0	80°0	73°0	83°8	76°0	84°5	74°5	80°5	74°6	77°0	73°4	76°8	72°8	76°0	72°5
19	68°5	67°9	71°8	70°0	82°0	76°6	81°0	75°0	81°0	75°0	80°0	72°5	75°5	71°0	74°5	70°0	74°0	69°0
20	69°0	68°0	72°0	70°3	78°4	74°0	79°0	73°0	80°2	73°0	79°2	73°0	75°0	70°0	75°0	69°5	75°0	69°8
21	66°9	66°0	71°5	69°3	75°0	72°0	74°4	71°3	78°0	73°0	78°9	72°0	74°0	70°0	73°0	67°7	71°0	69°0
22	68°0	67°0	70°8	69°8	80°0	72°0	80°0	72°2	79°0	71°0	77°2	69°8	73°0	69°0	72°5	69°0	71°0	68°0
23	64°5	64°0	71°0	69°0	79°8	74°0	82°0	75°0	81°8	73°8	78°0	73°5	75°4	69°2	74°0	71°0	74°0	71°4
24	71°5	70°2	74°0	71°5	80°5	75°0	83°5	76°0	81°0	75°0	78°5	74°2	76°8	74°0	74°8	72°0	73°4	71°0
25	67°0	66°2	70°4	69°6	77°4	72°8	83°6	75°8	84°0	72°0	82°6	72°0	75°8	72°0	73°8	70°5	73°5	70°8
26	70°0	69°0	73°8	71°2	79°0	76°3	81°0	75°5	81°2	75°2	79°0	74°5	77°0	74°0	76°0	74°6	76°0	74°6
27	67°0	66°0	70°0	69°0	81°0	75°0	80°2	73°5	81°0	72°0	80°0	72°8	75°0	69°0	73°5	68°5	71°0	67°8
28	66°0	65°0	68°0	67°0	75°0	71°6	79°0	72°5	79°0	72°0	77°6	71°2	74°8	70°0	74°0	69°6	73°5	69°0
29	68°0	67°0	73°0	71°0	81°0	75°0	80°5	74°6	80°0	74°0	80°8	75°0	77°0	73°0	75°8	71°2	75°0	71°5
30	71°0	69°8	72°0	71°0	82°0	76°8	82°8	76°8	82°0	76°5	80°0	70°8	74°0	69°2	72°0	68°8	72°0	68°0
31	65°0	64°0	68°5	67°0	78°0	73°2	81°5	76°0	80°0	72°6	74°5	75°0	69°5	74°0	70°0	73°0	69°0	
Mean	67°2	66°0	69°9	68°2	77°1	72°0	79°5	72°7	79°4	72°0	77°8	71°2	73°9	69°3	72°8	69°0	72°0	68°7

Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.—SANCHEZ, SAN DOMINGO.

DECEMBER 1887.

Day.	UPPER CLOUDS.												LOWER CLOUDS.											
	6 A.M.				2 P.M.				10 P.M.				6 A.M.				2 P.M.				10 P.M.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.
1	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	7	NW	4	—	0	—	—
2	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	NNW	4	Cum.	9	NW	3	C.N.	10	—	—
3	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	8	N	2	Cum.	8	N	2	C.N.	8	—	—
4	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	N	2	Cum.	6	N	2	Cum.	6	N	2
5	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	N	2	C.N.	8	N	2	Cum.	4	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	7	NbyW	2	Cum.	9	NNW	2	C.N.	7	NNW	1
7	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	10	NNE	2	Cum.	6	NE	1	Cum.	6	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	Str.	1	—	—	Cum.	6	ENE	2	Cum.	8	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	7	S	2	Cum.	8	ESE	2	Cum.	6	E	1
10	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	4	—	—	Cum.	7	E	2	C.N.	9	E	1
11	—	—	—	—	Cir.	2	W	1	—	—	—	—	C.N.	8	E	1	Cum.	5	E	2	Cum.	8	—	—
12	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	E	3	Cum.	8	E	2	Cum.	3	—	—
13	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	2	—	—	Cum.	10	E	3	Cum.	6	E	3
14	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	2	—	—	C.N.	10	ESE	4	Cum.	8	—	—
15	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	8	E	2	Cum.	3	—	—
16	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	1	—	—	Cum.	7	ENE	1	Cum.	1	—	—
17	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	1	—	—	Cum.	6	S	3	Cum.	4	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	—	0	—	—	Cum.	6	S	1	Cum.	7	S	1
19	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	7	NE	2	Cum.	6	ENE	2	Cum.	9	—	—
20	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	6	E	2	Cum.	5	E	3	Cum.	3	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	Nim.	10	—	—	Cum.	8	E	2	Cum.	9	ENE	1
22	—	—	—	—	Cir.	3	E	0.5	—	—	—	—	Cum.	9	E	2	Cum.	5	E	2	Cum.	3	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	3	—	—	Cum.	6	E	2	Cum.	6	E	1
24	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	Cum.	6	SE	2	Cum.	2	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	Cum.s.	9	SSE	2	Cum.	2	—	0	Cum.	5	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	9	SSE	1	C.N.	8	SSE	3	Cum.	10	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—	C.N.	10	—	—	Cum.	5	E	3	Cum.	3	—	—
28	Cir.-c.	2	SE	0.5	—	—	—	—	Cir.-c.	4	SW	0.5	Cum.	6	E	2	Cum.	9	E	1	Cum.	5	E	1
29	Cir.-c.	5	W	0.5	Cir.-c.	4	W	0.5	—	—	—	—	Cum.	3	—	—	Cum.	4	S	2	Cum.	9	W	1
30	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	9	NNW	1	Cum.	7	E	3	Cum.	2	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	Cum.	5	E	2	Cum.	8	E	2	Cum.	3	—	—
Mean	—	—	—	—	—	—	—	—	—	—	—	—	—	6.3	—	—	—	6.9	—	2.2	—	5.6	—	—

Day.	WIND.						Vel.	Rain-fall.	REMARKS.
	Direction and Force.								
	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.				
1	W 3	WNW 3	NW 4	WNW 3	Ca	miles. 185	ins. .02	Fine all day, with ∞.	
2	W 3	W 2	WNW 2	W 1	Calm 0	270	.05	Fine and fresh, with ∞ a. 8a. ● showers from 10a., with sunny intervals.	
3	W 1	W 2	W 4	W 1	W 1	175	.87	● showers a. Fine till 8p. Squally ● showers 10p.	
4	W 1	W 2	W 2	W 2	WNW 1	150	.15	● showers till noon. 4p. Very fine 10p.	
5	W 1	W 1	SSE 1	W 1	NW 2	285	.23	● showers till 4p., then fine. (At 2p. ● shower came from ENE., wind being SSE.)	
6	W 1	W 2	W 2	E 1	Calm 0	150	.04	Fine a. ● 0p. 4p. (mist) on N. hills 6p.	
7	NW 1	Calm 0	NNE 1	NNE 2	Calm 0	125	.09	● n. Ugly 6a. (mist) on N. hills, ● in E., 8a. Fine from 10a. 4.30p. [Very fine 8p.]	
8	W 1	W 1	Calm 0	Calm 0	Calm 0	80	—	Fine all day. Sultry at 2p.	
9	W 1	SSE 1	E 2	E 1	E 1	70	—	(mist) on swamp 6a. Red sunrise. Fine all day. ● showers in ESE., 2p.	
10	W 1	S 1	E 3	E 1	E 1	120	—	(mist) on swamp, 6a. Fine a., with ∞. Very fine p. ● showers 10p.	
11	E 1	E 2	E 3	E 1	Calm 0	179	.24	● showers a. (mist) on N. hills 8a. Fine all day from 10a., with ∞.	
12	W 1	E 1	E 1	ENE 1	Calm 0	141	.15	● a. (mist) on N. hills, clouds low, 10a. Very muggy noon. 4p. Fine from	
13	W 1	E 1	ENE 1	ENE 1	Calm 0	75	.27	(mist) on swamp 6a. Fine 8a. Muggy and close 10a.—4p., then very fine. [6p.]	
14	W 1	WSW 1	ENE 2	Calm 0	Calm 0	90	.23	on swamp and S. hills 6a. Fine, with ∞ 8a. Overcast from 10a., with drizzling ●	
15	W 1	SSW 1	NE 2	ENE 1	Calm 0	75	.10	till 8a. Fine all day. Local ● showers in S., 2p.	
16	W 1	W 1	NNW 1	NbyE 2	Calm 0	100	—	● n. Day very fine.	
17	W 1	W 1	ESE 3	E 1	Calm 0	100	—	● n. Very fine all day, with ∞ 2p. and 4p.	
18	Calm 0	Calm 0	sebsys 1	Calm 0	Calm 0	90	—	● n. Day very fine.	
19	W 1	WSW 1	E 2	NNE 3	N 3	70	—	● n. (mist) on swamp and hills 6a. Day fine, with ∞ a. Getting ugly at 10p.	
20	Calm 0	W 1	E 3	NE 1	Calm 0	125	.07	● n. (mist) on swamp and hills, ugly in S., a. Muggy and close till noon. Very	
21	W 1	SE 1	ENE 1	Calm 0	Calm 0	153	.02	6a. Fine, with ∞ 8a. Muggy, with ● showers, 10a.—2p. Fine from 4p. [fine p.]	
22	W 1	E 2	ESE 3	Calm 0	Calm 0	102	.21	● n. (mist) on swamp and valleys, ugly in E., 6a. ● in S. 8a. Fine from 10a., [with ∞ till 2p.]	
23	W 1	W 1	E 1	E 1	Calm 0	136	—	● n. (mist) on swamp 6a. Fine all day, with ∞.	
24	Calm 0	ESE 1	ESE 1	Calm 0	Calm 0	113	—	Dull 6a. Fine from 10a.	
25	Calm 0	Calm 0	E 1	Calm 0	Calm 0	126	—	Dull 6a., with (mist) on swamp and N. hills. Fine from 8a. Very fine p.	
26	WNW 1	W 1	ESE 1	Calm 0	Calm 0	80	—	● n. (mist) on swamp 6a. Thundery looking, with ●, in S. noon. (mist) on	
27	W 1	SE 1	ESE 3	E 1	Calm 0	75	—	on swamp a. Fine from 10a., with ∞. Red sunset. [hills 4p. Ugly 10p.]	
28	W 1	W by S 1	ESE 2	E 1	Calm 0	124	—	(mist) on swamp 6a. Dull a. Fine p. Very fine 8p. and 10p.	
29	W by N 1	SSE 1	ESE 2	Calm 0	Calm 0	171	—	● n. (mist) on swamp 6a. Day fine, with ∞. Dull at 6p.	
30	S 0.5	W 1	ESE 2	NNW 1	Calm 0	129	—	(mist) on swamp 6a. Dull a. Fine p., with ∞. Very fine 8p. and 10p.	
31	W 1	W 1	E 3	Calm 0	Calm 0	71	—	● n. (mist) on swamp and S. hills a. Day fine, with ∞. Very fine 8p.	
Mean	1.0	1.2	1.9	0.9	0.3	126.9	2.74		

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.

JANUARY 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN-SHINE.	RAIN-FALL.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
	ins.	ins.	ins.	ins.														hours.	ins.	
1	30° 170	30° 218	30° 146	30° 229	70° 0	68° 9	74° 0	71° 6	80° 8	73° 2	74° 0	68° 0	65° 0	84° 0	—	64° 0	79° 3	8° 4	° 04	
2	254	272	202	234	66° 0	64° 8	75° 0	70° 0	80° 0	73° 0	73° 0	69° 2	62° 5	85° 0	—	60° 5	79° 5	7° 3	—	
3	186	250	161	211	71° 0	65° 4	78° 0	71° 8	81° 0	70° 0	70° 0	64° 0	67° 5	84° 0	—	60° 5	79° 6	8° 2	—	
4	191	236	163	209	65° 0	63° 8	75° 0	70° 0	79° 5	72° 0	74° 0	70° 0	62° 0	89° 0	—	58° 5	79° 6	7° 2	—	
5	194	194	144	193	69° 9	64° 2	78° 0	69° 0	79° 0	69° 0	73° 0	67° 5	66° 5	82° 0	—	59° 5	79° 6	7° 5	° 08	
6	180	223	135	186	65° 0	64° 0	67° 5	66° 8	79° 9	70° 0	71° 6	66° 2	63° 0	82° 0	—	61° 5	79° 5	7° 3	° 03	
7	168	176	127	167	63° 0	62° 0	70° 0	66° 0	78° 0	67° 4	72° 6	66° 6	60° 0	81° 5	—	58° 0	79° 2	8° 9	—	
8	156	190	123	177	66° 6	65° 4	77° 9	67° 9	79° 0	69° 0	70° 8	68° 0	62° 0	83° 0	—	59° 0	79° 0	5° 7	—	
9	160	200	124	193	66° 4	65° 2	75° 0	71° 0	77° 5	69° 0	71° 5	68° 0	65° 0	83° 0	—	61° 0	79° 0	7° 0	° 04	
10	188	212	126	183	66° 0	65° 0	75° 0	71° 8	80° 0	71° 4	71° 6	68° 0	63° 0	83° 0	—	61° 0	79° 0	7° 0	° 01	
11	182	205	148	198	66° 0	65° 0	76° 0	72° 0	74° 6	72° 5	72° 0	70° 0	64° 0	85° 0	—	60° 5	79° 1	4° 7	° 03	
12	209	260	198	268	69° 0	67° 5	78° 8	73° 0	78° 0	72° 5	74° 0	68° 5	67° 5	83° 0	—	64° 0	79° 2	9° 1	° 30	
13	243	277	224	239	72° 4	68° 4	78° 0	71° 8	74° 8	70° 0	72° 8	68° 0	70° 0	83° 0	—	64° 5	79° 5	5° 8	° 03	
14	235	271	183	229	74° 0	69° 8	77° 6	73° 7	79° 0	70° 0	72° 0	67° 0	70° 0	83° 0	—	66° 0	79° 4	6° 5	° 01	
15	231	249	177	253	66° 0	65° 0	71° 0	70° 0	78° 8	70° 0	72° 2	67° 5	61° 5	81° 0	—	59° 0	79° 3	7° 0	° 05	
16	216	261	167	217	69° 2	66° 8	76° 0	70° 0	78° 0	70° 0	71° 8	67° 2	66° 0	81° 0	—	61° 0	79° 2	6° 9	° 03	
17	202	227	160	195	69° 0	65° 0	74° 5	70° 4	77° 0	66° 2	69° 0	66° 0	65° 5	80° 0	—	61° 0	79° 1	9° 3	° 09	
18	158	184	082	112	64° 5	64° 0	67° 0	66° 0	75° 9	67° 8	68° 8	65° 6	62° 0	80° 0	—	60° 0	79° 0	5° 8	° 32	
19	094	134	065	157	63° 0	62° 0	68° 2	66° 0	79° 8	71° 0	70° 5	68° 0	60° 5	84° 0	—	59° 0	78° 8	7° 9	—	
20	151	201	148	213	67° 2	66° 5	71° 0	69° 5	79° 0	73° 8	71° 2	68° 0	64° 0	83° 0	—	61° 0	78° 5	4° 8	° 18	
21	219	253	175	216	67° 0	66° 4	74° 0	71° 0	78° 4	71° 8	73° 0	71° 0	64° 0	79° 0	—	62° 0	78° 5	7° 2	° 27	
22	238	263	194	193	65° 0	64° 7	75° 2	72° 0	83° 0	75° 0	72° 0	69° 5	64° 0	84° 5	—	61° 0	78° 5	7° 8	—	
23	197	236	159	182	64° 5	64° 0	76° 0	72° 0	78° 2	70° 0	70° 0	66° 0	64° 0	79° 0	—	60° 5	78° 7	7° 9	° 37	
24	189	197	117	178	66° 4	66° 0	76° 5	72° 0	78° 0	71° 8	73° 0	69° 0	64° 5	80° 7	—	60° 5	78° 5	6° 4	° 40	
25	162	202	141	145	66° 0	65° 4	76° 8	73° 7	79° 6	71° 4	71° 0	67° 0	65° 0	80° 0	—	62° 0	78° 5	9° 1	—	
26	158	193	090	113	65° 2	64° 4	73° 0	69° 5	83° 0	73° 0	73° 0	70° 0	62° 0	84° 5	—	58° 5	78° 5	10° 3	° 05	
27	104	185	139	166	70° 4	68° 8	76° 2	72° 0	84° 0	73° 0	74° 0	72° 0	67° 0	84° 5	—	63° 0	78° 5	9° 0	° 02	
28	123	132	086	087	73° 0	70° 0	79° 0	74° 0	86° 0	75° 5	73° 5	70° 5	69° 5	86° 0	—	65° 0	79° 0	7° 8	—	
29	143	160	145	132	74° 5	73° 5	76° 0	70° 0	70° 5	68° 0	66° 5	65° 5	66° 0	76° 0	—	68° 5	79° 0	0° 0	° 94	
30	165	193	132	121	66° 5	65° 0	73° 0	70° 0	75° 0	71° 0	71° 0	68° 0	62° 4	81° 5	—	59° 5	79° 0	5° 8	1° 20	
31	30° 200	30° 198	30° 126	30° 147	68° 0	67° 5	70° 2	69° 4	77° 5	70° 0	71° 0	68° 0	67° 0	81° 0	—	65° 5	78° 5	7° 1	° 43	
Mean	30° 183	30° 215	30° 145	30° 185	67° 6	65° 9	74° 5	70° 4	78° 8	70° 9	71° 8	68° 0	64° 6	82° 5	—	61° 5	79° 0	220° 7	4° 92	

Day.	LOWER CLOUDS.								WIND.				REMARKS.		
	9 A.M.				9 P.M.				Direction and Force.		Vel.				
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.					
1	Cum.	9	E	2	Cum.	3	—	—	W	I	Calm	0	miles.	190	☼ ⁰ (mist) on swamp 7a. ∞ during day.
2	Cum.-s.	7	E	3	Cum.	2	—	—	W	I	E	0° 5	215	☼ ⁰ a. Day fine, with ∞. ☾ 4p. Very fine 9p.	
3	Cum.	2	—	—	Cum.	1	—	—	WSW	I	E	1	130	☼ ⁰ n. ☼ ⁰ (mist) on swamp 7a. Day fine.	
4	Cum.	4	E	2	Cum.	5	E	1	W	I	ENE	1	125	☼ ⁰ n. Fine a. Close and muggy p., with ● showers.	
5	Cum.	7	E	2	Cum.	6	N	1	snbys	I	NbyE	2	125	☼ ⁰ n. Very fine day.	
6	Cum. Nim.	10	ENE	1	Cum.	5	NNE	1	W	I	NbyE	1	120	● ⁰ showers a. ☼ ⁰ (mist) on hills. Clouds low. Very fine p.	
7	Cum.-s.	4	E	2	Cum.	8	NE	1	W	I	ENE	1	130	☼ ⁰ n. Fine day.	
8	Cum.	7	E	2	Cum.	5	ESE	1	E	2	ENE	1	50	☼ ⁰ n. Fine a., with ∞. ● showers p.	
9	Cum.	4	E	2	Cum.	4	E	2	SW	I	Calm	0	95	☼ ⁰ a. ● in S. ☾ 9a. Very fine p.	
10	Cum.	8	E	2	Cum.	4	E	1	W	I	Calm	0	100	Ugly appearance in S., with ● there, a. ☾. Fine p., with ∞.	
11	Cum.	5	E	3	Cum.	9	E	2	W	I	E	1	110	☼ ⁰ (mist) on swamp 7a. Fine, with ∞ a. ● ⁰ showers p.	
12	Cum.	7	E	3	Cum.	6	E	2	SSW	I	NNE	2	145	☼ ⁰ (mist) on swamp 7a. Day fine, with ∞. Double ☾ 4p.	
13	Cum.	9	E	4	Cum.	6	NE	3	E	2	NNE	3	185	● in N. and NE. a. ☾. ☼ (squall) ● ⁰ p. Very fine 9p.	
14	Cum.	9	E	3	Cum.	4	—	—	E	1	ENE	1	200	● ⁰ in ESE. 7a. Day fine, with ∞. [Double ☾ 4p.	
15	Cum. Nim.	9	E	2	Cum.	4	—	—	SSW	I	ENE	1	120	● showers 7a. ☼ ⁰ (mist) on hills, clouds low 9a. Fine, with ∞ p.	
16	Cum.	6	NEbyN	2	Cum.	7	NE	2	E	2	NNE	2	225	☼ ⁰ (mist) on swamp 7a. ∞ during day. Very fine 9p.	
17	Cum.	7	ENE	3	Cum. Nim.	10	—	—	SSW	I	ENE	1	80	Ugly appearance 7a. ● on NNE. hills. Day fine, with ∞.	
18	Nim.	10	—	—	Scr.	1	—	—	W	I	Calm	0	200	● ⁰ till noon. Very fine p.	
19	Cum.-s.	9	NNE	2	Cum.	8	N	2	W	I	Calm	0	125	☼ ⁰ (mist) on swamp 7a. Dull 9a. Very fine 2p.	
20	Cum.	10	—	—	Cum.	3	—	—	W	I	Calm	0	70	● showers.	
21	Cum.	7	E	1	Cum.	4	E	1	W	I	E	0° 5	100	☼ ⁰ (mist) on swamp 7a. Day very fine. ● on S. hills.	
22	Cum.	7	E	1	Cum.	4	—	—	WbyS	I	Calm	0	155	☼ ⁰ n. ☼ ² (mist) on swamp 7a. Day sultry. ● showers p.	
23	Cum.	7	E	1	Cum.	2	—	—	WbyS	I	NW	0° 5	90	☼ ⁰ n. ☼ ⁰ (mist) on swamp 7a. Day very fine.	
24	Cum.	8	E	1	Cum.	4	S	1	W	I	NE	1	100	☼ ⁰ (mist) on swamp 7a. Fine day.	
25	Cum.	6	E	2	Cum.	1	—	—	WSW	I	Calm	0	125	☼ ² n. ☼ ⁰ on swamp and S. hills 7a. Day fine, with ∞.	
26	Cum.	2	E	2	Cum.	6	S	2	W	I	Calm	0	100	☼ ² n. ☼ ⁰ (mist) on swamp 7a. Day fine, with ∞.	
27	Cum.	5	W	1	Cum.	10	S	1	W	I	Calm	0	125	☼ ⁰ (mist) on swamp 7a. Day fine, with ∞.	
28	Cum.	8	N	1	Cum.	6	N	1	E	1	Calm	0	150	☼ ⁰ (mist) on swamp 7a. ∞ a.	
29	Nim.	10	—	—	Cum.	6	E	1	Calm	0	Calm	0	100	● most of day.	
30	Cum.	6	E	3	Cum.	9	E	2	W	I	Calm	0	45	☼ ⁰ (mist) on swamp 7a. ● showers p. Dull 9p.	
31	Cum. Nim.	10	—	—	Cum.	6	E	2	W	I	Calm	0	75	☼ ⁰ n. and a. Dull, clouds low. ☼ ⁰ (mist) on hills 9a. ∞ ² 2p.	
Mean	—	7° 1	—	—	—	5° 1	—	—	1° 1	0° 7	125° 6				

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

FEBRUARY 1888.

Day.	BAROMETER.				TEMPERATURE.														Sun- SHINE.	RAIN- FALL.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
1	ins. 30°159	ins. 30°187	ins. 30°101	ins. 30°139	66°0	63°5	76°0	70°0	79°0	72°0	71°0	67°0	63°0	83°0	—	58°5	78°5	hrs. 10°2	ins. —	
2	°122	°129	°061	°101	68°5	67°0	73°0	70°0	80°0	71°5	73°0	68°5	65°0	82°0	—	60°5	78°5	10°3	—	
3	°169	°184	°114	°171	68°0	66°5	77°0	72°0	78°0	70°0	71°0	66°5	65°5	81°0	—	61°0	78°5	9°3	—	
4	°188	°205	°108	°111	68°0	66°0	76°0	72°0	79°0	72°5	71°0	69°5	63°5	82°0	—	59°5	78°5	10°0	—	
5	°169	°182	°091	°158	71°0	69°0	77°0	73°0	81°0	74°8	74°0	71°5	70°0	82°8	—	66°0	78°5	8°0	—	
6	°157	°182	°100	°157	68°0	67°0	78°5	72°0	83°0	75°0	74°0	70°2	66°5	86°0	—	62°0	79°0	9°7	—	
7	°145	°174	°106	°121	72°2	70°5	73°8	71°8	79°4	73°8	70°9	68°0	69°8	80°0	—	66°0	79°2	8°3	°28	
8	°115	°145	°059	°073	65°6	63°0	75°8	72°0	80°0	70°7	73°6	69°8	64°0	82°0	—	60°5	79°2	10°8	—	
9	°082	°108	°030	°066	67°0	66°0	76°0	71°0	81°5	72°0	74°0	70°4	64°0	83°0	—	60°0	79°2	10°7	—	
10	°110	°161	°088	°143	67°0	66°0	81°8	75°0	82°0	76°0	72°0	68°0	64°0	83°0	—	60°0	79°4	6°8	—	
11	°148	°166	°111	°147	67°2	66°2	80°0	75°0	79°0	73°0	73°0	68°0	64°5	83°0	—	61°0	79°5	9°7	°17	
12	°132	°144	°098	°133	68°6	67°0	75°0	71°2	79°7	70°8	72°0	66°0	65°0	81°0	—	60°5	79°5	10°8	—	
13	°110	°115	°085	°071	66°0	64°5	77°0	71°5	80°0	72°6	73°0	70°5	63°5	82°0	—	59°0	79°5	9°4	—	
14	°088	°119	°060	°113	70°8	69°0	78°8	73°6	83°8	73°8	74°0	70°0	63°5	85°0	—	60°5	79°5	9°6	—	
15	°105	°138	°098	°139	72°0	65°6	77°0	68°0	81°4	68°0	74°8	66°5	63°0	81°5	—	61°5	79°8	10°8	°07	
16	°142	°141	°114	°122	71°0	64°0	73°0	64°0	74°5	65°2	68°5	62°0	68°0	80°8	—	64°0	79°8	3°2	—	
17	°100	°114	°038	°084	64°0	63°0	67°9	66°8	72°0	67°2	68°5	62°0	63°0	77°8	—	58°0	79°0	2°8	°53	
18	°075	°101	°037	°086	66°8	66°2	69°8	68°8	71°7	68°0	68°0	67°0	65°5	74°0	—	64°0	79°0	1°0	°60	
19	°109	°124	°083	°104	67°2	66°7	68°0	67°2	70°0	68°5	68°0	67°5	66°4	71°0	—	64°0	78°8	0°2	°90	
20	°118	°131	°079	°136	64°2	64°0	71°0	69°0	75°0	69°5	70°5	66°5	62°0	79°0	—	60°0	78°0	5°3	°15	
21	°151	°182	°132	°195	69°0	66°4	77°0	67°5	73°0	70°0	70°5	66°0	67°0	80°0	—	60°5	78°0	7°5	°18	
22	°185	°213	°137	°198	68°0	66°0	73°0	68°5	76°0	67°0	70°5	66°0	65°0	79°0	—	59°0	77°9	4°8	°17	
23	°160	°176	°114	°126	66°2	65°7	73°0	68°5	77°2	67°0	69°5	64°5	62°0	79°2	—	58°0	77°5	7°0	—	
24	°142	°143	°077	°091	71°8	67°0	70°0	68°0	76°0	66°0	68°0	62°5	66°0	78°0	—	61°0	77°4	4°7	°04	
25	°122	°140	°065	°093	67°0	65°0	72°2	67°8	78°0	67°6	72°4	63°5	62°5	80°5	—	59°5	77°2	7°5	—	
26	°145	°139	°059	°109	69°0	67°4	75°0	71°0	79°5	68°6	71°5	67°4	65°0	80°0	—	60°5	77°2	8°5	°08	
27	°183	°175	°073	°093	67°5	65°0	77°2	73°0	80°0	70°5	72°0	66°0	64°0	80°0	—	59°5	77°5	10°7	—	
28	°152	°169	°116	°147	66°0	65°0	76°0	72°0	81°5	74°0	73°0	69°5	64°4	82°8	—	60°0	77°8	8°5	—	
29	30°158	30°187	30°141	30°191	71°5	69°0	74°0	70°0	74°0	69°4	69°5	66°5	67°5	76°0	—	65°0	78°0	2°3	°20	
Mean	30°136	30°154	30°089	30°125	68°1	66°2	74°8	70°4	78°1	70°5	71°4	67°3	64°0	80°5	—	61°0	78°6	218°4	3°37	

Day.	LOWER CLOUDS.								WIND.			REMARKS.		
	9 A.M.				9 P.M.				Direction and Force.		Vel.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.				
1	Cum.	5	E	1	Cum.	8	E	2	W	1	Calm	0	130	☼ ⁰ (mist) on swamp 7a. Day fine.
2	—	0	—	0	Cum.	9	N	2	W	1	Calm	0	100	☼ ⁰ (mist) on swamp 7a. Day fine.
3	Cum.	4	NE	1	Cum.	2	—	—	SSW	1	Calm	0	125	☼ ² n. ☼ ⁰ (mist) on swamp 7a. Day fine.
4	Cum.	8	E	2	Cum.	10	E	2	W	1	Calm	0	185	☼ ⁰ (mist) on swamp 7a. Fine a., with ∞. Cloudy p.
5	Cum.	8	E	2	Cum.	8	E	2	W	1	ENE	1	205	Day fine, with ∞.
6	Cum.	4	—	1	Cum.	2	—	—	WSW	1	Calm	0	98	☼ ² n. ☼ ⁰ (mist) on swamp 7a. Day fine. ∞ 2p. [sea.
7	Cum.	7	SSE	3	Cum.	1	—	—	ENE	1	Calm	0	177	☼ ⁰ (mist) on swamp 7a. Squally ● showers a. Fine p., with heavy
8	Cum.	6	E	2	Cum.	9	E	2	W by S	1	NE	1	195	☼ ² n. ☼ ⁰ (mist) on swamp 7a. Day fine.
9	Cum.	4	E	1	Cum.	2	—	—	W	1	Calm	0	150	☼ ⁰ (mist) on swamp 7a. Day very fine. [● on S. hills.
10	Cum.	6	NE	2	Cum.	1	—	—	sw by S	1	Calm	0	95	☼ ² n. ☼ ⁰ (mist) on swamp 7a. Very fine ga. Very muggy 2p., with
11	Cum.	7	E	2	Cum.	1	—	—	S by W	1	ENE	1	130	☼ ⁰ (mist) on swamp 7a. Day fine. ∞ 2p.
12	Cum.	6	ENE	2	Cum.	1	—	—	W	1	ENE	1	145	Fine, with ∞, a. Very fine p.
13	Cum.	6	E	1	Cum.	9	E	2	W	1	ENE	1	135	Day fine, with ∞. [shower op.
14	Cum.	6	NNW	2	Cum. Nim.	9	N	2	SW	1	N	2	184	Dull, with ☼ ⁰ (mist) on hills, and low clouds 7a. Fine 2p. ● ²
15	Cum.	5	NNW	3	Cum.	3	N	3	NNE	2	N	2	105	Very fine and fresh.
16	Cum.	9	N	2	Cum.	7	NNW	3	W	1	Calm	0	115	Dull a. Fine, with ∞, p.
17	Cum.	9	E	1	Cum.	9	—	—	W	1	Calm	0	85	Muggy day, with ● showers. ☼ ⁰ 3p.
18	Nim.	10	—	1	Nim.	10	—	—	SSW	1	Calm	0	140	Dull and muggy, with ● ⁰ ☼ ⁰ (mist).
19	Cum. Nim.	10	—	1	Cum.	9	—	—	NW	1	Calm	0	135	● ⁰ ☼ ⁰ (mist).
20	Cum.	6	E	3	Cum.	6	E	2	W	1	E	1	80	☼ ⁰ till ga., then fine.
21	Cum.	5	E	1	Cum.	9	S	1	E	1	Calm	0	140	☼ ⁰ (mist) on swamp 7a. ● showers 2p.
22	Cum.	9	E	2	Cum.	2	—	—	S	1	N	2	175	● showers on N. hills 7a. Very dull ga. Fine, with ∞ p.
23	Cum. Nim.	9	E	2	Cum.-s.	6	NE	1	W	1	NNE	2	190	Fine 7a. Ugly, with ☼ ⁰ (mist) on N. hills, ga. Fine from 2p.
24	Nim.	10	—	1	Cum.	3	—	—	S	1	Calm	0	150	● at ga., otherwise fine.
25	Cum.	9	E	2	Cum.-s.	2	—	—	W	1	ENE	1	115	Dull a. Very fine p.
26	Cum.	10	E	1	Cum.	3	—	—	Calm	0	ENE	1	180	Very dull a., with threatening appearance in N. and E. Very fine p.
27	Cum.	6	E	2	Str.	1	—	—	W	1	Calm	0	170	☼ ⁰ (mist) on swamp 7a. Day very fine, with ∞.
28	Cum.	5	E	2	Cum.	7	NE	3	W	1	NNE	2	184	☼ ⁰ (mist) on swamp 7a. ∞ 2p. Day fine.
29	Cum. Nim.	9	NE	4	Nim.	10	—	—	E	1	N	3	210	● showers most of day. Squally ☼ ⁰ 9p.
Mean	—	6°8	—	1°7	—	5°5	—	—	1°0	0°7	145°8			

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.

MARCH 1888.

Day.	BAROMETER.				TEMPERATURE.														Earth.	SUN-SHINE.	RAIN-FALL.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.						
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.					
	ins.	ins.	ins.	ins.														hours.	ins.		
1	30°174	30°191	30°144	30°193	68°0	66°4	73°8	69°0	73°0	68°2	69°5	66°5	63°5	75°0	—	65°5	78°0	4°0	70		
2	215	237	204	204	68°0	64°0	76°0	65°0	76°2	62°8	69°5	66°5	63°0	77°8	—	57°0	77°9	9°5	20		
3	202	219	147	144	63°8	64°0	69°0	68°0	78°0	65°6	68°0	66°0	59°5	79°5	—	55°0	77°1	9°0	—		
4	152	164	077	101	66°0	63°8	70°0	65°0	78°0	67°5	67°0	63°5	58°5	80°0	—	55°0	77°0	7°7	—		
5	100	116	076	105	65°0	63°2	72°0	67°0	79°0	70°0	72°5	65°5	61°6	80°0	—	55°8	76°8	10°8	—		
6	118	143	020	073	65°0	63°0	76°0	69°8	80°2	71°6	68°0	66°5	62°8	83°5	—	56°0	77°0	9°3	—		
7	132	172	056	101	69°8	68°0	79°0	73°8	81°0	74°8	76°0	73°0	67°0	86°0	—	61°5	77°0	9°5	—		
8	152	163	056	120	72°5	69°0	77°2	73°0	86°0	77°0	76°0	73°5	71°6	86°8	—	66°5	78°0	8°8	03		
9	145	149	143	202	72°8	71°0	77°5	72°4	85°0	76°5	74°8	71°0	69°0	87°0	—	65°0	78°4	8°5	—		
10	168	199	132	171	70°0	69°5	75°2	71°0	73°2	70°0	70°0	66°0	64°8	80°0	154°5	64°5	79°0	1°2	11		
11	182	177	106	123	69°5	67°0	73°0	68°0	76°0	70°4	72°0	67°8	67°0	77°9	125°4	65°8	78°8	1°3	25		
12	073	079	30°029	028	72°4	71°0	78°4	73°8	88°0	74°8	74°5	69°5	69°0	89°0	145°0	65°5	78°5	8°0	05		
13	002	035	29°978	016	69°2	68°0	74°5	71°9	77°0	70°6	69°5	66°2	69°0	82°0	147°2	64°5	78°7	5°7	—		
14	067	090	30°068	117	69°8	66°2	69°3	67°7	76°0	72°0	71°5	65°5	65°7	82°0	147°5	64°0	78°5	1°3	—		
15	161	168	127	193	68°0	65°8	77°0	69°0	73°4	68°9	72°0	63°0	64°0	81°0	149°0	60°3	78°4	5°3	—		
16	213	211	150	169	72°9	65°8	74°2	66°0	75°4	64°5	63°8	63°0	67°0	76°0	135°0	62°0	78°4	2°5	—		
17	106	139	076	103	66°9	64°4	77°0	70°2	79°0	69°8	72°0	66°0	64°0	79°0	142°0	59°0	78°2	9°6	—		
18	083	100	006	095	71°8	69°9	76°3	71°7	88°0	76°5	72°0	71°0	65°6	88°0	148°0	61°5	78°4	7°2	—		
19	168	193	119	163	69°8	67°2	72°0	70°2	80°6	72°0	73°5	70°0	68°0	85°0	147°0	66°5	79°0	5°0	02		
20	141	157	096	119	72°2	67°8	80°0	73°0	76°5	69°0	70°5	67°0	68°0	80°0	152°0	66°0	79°0	4°0	—		
21	133	152	074	125	69°0	66°0	75°7	69°6	79°8	70°0	75°9	69°2	67°4	80°0	145°0	60°0	79°0	7°8	—		
22	128	161	100	165	68°0	66°2	75°5	70°6	79°0	71°5	72°7	67°5	61°0	80°0	140°0	58°5	79°2	10°8	—		
23	127	154	101	155	69°0	67°3	78°3	73°0	80°0	71°5	71°5	68°5	68°0	81°6	146°0	58°2	79°5	6°5	—		
24	104	195	135	155	69°0	67°0	73°8	69°2	75°8	70°3	72°0	68°0	65°5	81°2	143°5	59°0	79°8	1°7	—		
25	176	174	150	175	68°2	66°5	77°2	69°2	80°0	72°0	72°0	67°8	65°0	80°2	145°0	61°8	79°7	9°3	04		
26	151	177	168	177	73°2	68°7	76°0	69°3	79°5	71°8	72°5	69°0	69°0	79°5	142°0	65°0	79°6	8°5	—		
27	145	159	124	145	74°0	69°0	77°2	70°5	80°2	72°5	72°7	68°0	63°0	80°5	143°0	65°0	79°7	10°7	—		
28	158	180	137	145	69°8	67°0	70°8	70°0	78°2	72°8	72°0	69°0	69°0	82°0	149°0	59°0	79°8	7°3	—		
29	157	202	138	187	72°4	68°0	76°0	70°5	79°8	73°0	70°0	66°8	70°0	80°0	145°0	62°0	79°9	7°0	—		
30	207	234	185	229	67°0	65°7	75°9	70°0	80°0	71°0	72°0	67°0	65°0	80°0	142°5	65°0	80°0	6°3	—		
31	30°205	30°231	30°123	30°171	75°5	70°0	77°9	73°8	79°0	69°8	71°8	68°5	70°8	80°0	153°0	61°0	80°0	7°7	—		
Mean	30°143	30°165	30°105	30°141	69°6	66°9	75°2	69°9	79°2	70°9	71°6	67°6	65°9	81°3	—	61°7	78°7	211°8	1°40		

Day.	LOWER CLOUDS.								WIND.				REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.		
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.			
1	Cum. Nim.	10	E	5	Nim.	10	—	—	NNE 2	Calm 0	miles.	300	Rough ● showers.
2	Cum.	7	NE	2	Cum.	3	N	1	EbyN 2	NNE 2	110	∞ ga. Day very fine.	
3	Cum.	7	NNE	1	Cum.	3	N	—	W 1	ENE 1	185	∞ a. Day very fine.	
4	Cum.	6	E	1	Cum.	4	—	—	W 1	ENE 1	115	∞ ⁰ (mist) on swamp 7a. ∞ ga. Very fine p.	
5	Cum.	6	ENE	2	Cum.	7	NE	2	SSW 1	N 1	110	∞ ⁰ (mist) on swamp 7a. Day fine. ∞ ga.	
6	Cum.	4	N	1	Cum.	1	N	—	W 1	E 1	185	Very fine all day.	
7	Cum.	4	NW	1	Cum.	3	N	1	S 1	N 1	135	∞ ⁰ (mist) on swamp 7a. Very fine ga. ∞ a. and p. ∞ sp.	
8	Cum.	6	W	1	—	7	—	—	E 2	Calm 0	98	Fine a. Very fine p.	
9	Cum.	6	NW	2	Cum.	3	N	—	W 1	NNE 1	172	Fine day. < in SW. 6p.	
10	Cum. Nim.	10	E	3	Cum. Nim.	7	NE	4	NE 1	NNE 2	150	Dull, with ∞ ⁰ (mist) on hills and ● a. Very gusty with rough ●	
11	Cum.	10	E	2	Cum.	3	—	—	E 1	E 1	250	Very dull a. ∞ 2p. Very fine 9p. [showers p.]	
12	Cum.	6	S	4	Cum.	7	WNW	1	SSW 1	Calm 0	130	∞ ⁰ (mist) on N. hills ga. ∞ a. Day fine.	
13	Cum.	6	W	1	—	10	—	—	NNW 1	NNW 2	100	Red sunrise. Threatening appearance p., with squally ● ⁰ .	
14	Cum. Nim.	10	NW	2	Cum.	10	—	—	NW 1	Calm 0	90	Very dull and ugly a., with ∞ ⁰ (mist) on hills, and ● in S.	
15	Cum.	5	WNW	2	—	8	—	—	NNW 1	N 1	60	∞ ⁰ (mist) on swamp 7a. ∞ a. Day fine.	
16	Cum.	9	N	4	—	8	—	—	NbyE 3	Calm 0	125	∞ 7a. Gusty ga., with threatening appearance in the N. Fine p.	
17	Cum.	4	N	2	Cum.	9	S	1	WbyS 1	E 1	130	Fine day, with ∞. [from W. lasting 3 secs. and of a trembling nature.	
18	Cum.-s.	4	W	2	Cum. Nim.	9	—	—	WbyS 1	Calm 0	175	Fine, with ∞ a. ● in S. 2p. ∞ sp. Ugly 9p. Earthquake at 7a.,	
19	Cum. Nim.	10	E	1	Cum.	9	E	2	WbyS 1	ENE 2	125	Dull, with ∞ ⁰ (mist) on N. hills, and low clouds a. Fine 2p. Ugly 9p.	
20	Cum.	7	ENE	2	Cum.	10	E	1	NE 2	Calm 0	175	Fine a. Dull and close, with ∞ 2p. ● in S.	
21	Cum.	8	E	1	Cum.	9	E	2	ENE 2	SE 2	180	Cloudy day, with ∞.	
22	Cum.	5	ESE	2	Cum.-s.	2	—	—	SE 1	SE 2	225	Day fine. ∞ 2p.	
23	Cum.	7	E	1	Cum.	4	—	—	SE 1	E 2	185	Dull 7a. Fine, with ∞ ga. and 9p.	
24	Cum. Nim.	9	NE	2	Cum. Nim.	9	E	3	E 2	NE 2	145	Day close and overcast, with ● showers. Squally 9p.	
25	Cum.	4	E	1	Cum.	8	E	1	ENE 3	NE 1	250	Day fine, with ∞ 2p.	
26	Cum.	6	E	1	Cum.	1	—	—	E 2	E 1	240	Day fine. Squally ga. ∞ and rough sea 2p.	
27	Cum.	6	SE	1	Cum.-s.	3	—	—	ENE 3	E 1	290	Day fine, with ∞.	
28	Cum. Nim.	10	—	2	Cum.	9	E	2	E 2	E 2	265	Ugly 7a. ∞ ⁰ ga. Very squally 2p. Earthquake 6a. lasting 3-4 secs.	
29	Cum.	9	E	2	Cum.-s.	1	—	—	E 4	NE 1	245	Squally ga. Very fine 2p., with rough sea.	
30	Cum.	7	E	2	Cum.-s.	2	—	—	Calm 0	Calm 0	175	Fine from ga., with ∞ ² .	
31	Cum.	8	E	1	Cum.-s.	3	—	—	ESE 3	E 1	225	Day fine, with ∞.	
Mean	—	7°0	—	1°8	—	5°9	—	—	1°6	1°0	172°4		

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

APRIL 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN- SHINE.	RAIN. FALL.
	At 32° Faht. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
1	ins. 30°157	ins. 30°167	ins. 30°111	ins. 30°131	68°2	67°0	76°8	70°0	76°0	78°0	71°2	67°0	64°4	79°5	120°0	59°0	80°1	hours. 2.7	ins. —	
2	°150	°167	°073	°111	69°8	69°0	75°2	71°0	80°5	73°0	73°0	68°0	66°0	82°0	148°0	61°0	80°0	6.5	°02	
3	°140	°161	°090	°133	71°0	69°0	77°5	73°0	82°0	73°5	72°5	68°5	68°8	82°5	148°0	62°5	80°0	6.3	—	
4	°120	°167	°123	°178	68°0	66°5	80°0	72°5	81°5	71°5	73°0	69°0	66°0	84°0	144°0	59°5	80°1	6.9	—	
5	°213	°226	°186	°205	73°0	68°0	77°0	70°0	79°0	69°0	72°0	67°0	66°5	81°0	150°0	60°5	80°8	9.7	—	
6	°231	°241	°191	°219	70°0	63°6	75°0	64°5	79°0	68°2	71°8	66°0	69°0	82°0	145°0	62°0	80°8	4.5	°01	
7	°180	°189	°119	°115	71°0	64°0	74°0	65°0	78°5	68°5	71°0	65°0	65°0	80°0	142°0	56°5	80°8	2.8	—	
8	°127	°139	°077	°105	69°0	65°0	77°0	69°0	78°0	67°0	70°0	63°8	65°0	83°0	154°5	61°0	80°6	7.8	—	
9	°170	°183	°127	°191	67°5	64°0	76°0	68°0	78°0	68°0	72°0	65°0	61°5	80°0	132°0	56°0	80°8	2°0	—	
10	°207	°223	°176	°203	68°0	65°4	80°0	72°0	78°0	69°8	72°0	68°0	66°5	81°0	129°0	61°5	80°8	4.7	—	
11	°190	°203	°153	°173	69°0	68°0	73°0	71°5	78°0	72°0	72°0	69°0	65°0	82°0	149°0	59°5	81°0	2.8	°05	
12	°145	°175	°108	°129	73°5	68°5	78°0	71°2	80°0	72°8	78°8	69°0	69°5	81°0	148°5	64°0	81°0	6.5	°11	
13	°133	°141	°089	°106	69°0	67°5	80°2	73°4	83°0	74°0	73°4	69°4	65°0	84°0	139°0	59°5	81°0	10°3	—	
14	°115	°121	°080	°119	73°0	70°5	82°5	76°0	88°0	75°5	74°0	71°0	70°5	88°0	152°0	68°0	81°0	7.3	°01	
15	°091	°095	°034	°067	72°0	70°0	76°0	73°0	85°0	74°0	73°0	71°0	70°0	88°0	154°0	69°0	81°6	3.2	—	
16	°085	°105	°048	°081	72°5	70°0	82°0	76°2	83°6	74°9	74°0	69°2	68°0	86°0	145°0	65°0	82°0	8.3	—	
17	°098	°113	°070	°117	71°0	69°2	82°0	74°5	79°0	74°0	71°5	69°0	70°0	84°0	148°0	65°5	82°0	5.3	°02	
18	°098	°113	°078	°086	70°0	69°0	75°0	73°0	81°5	75°8	75°0	71°0	69°0	84°8	144°2	66°0	82°0	5.5	1°15	
19	°109	°091	°046	°067	70°0	69°0	79°5	74°0	79°5	74°0	75°5	72°5	69°2	86°0	151°0	65°0	82°0	7°0	°02	
20	°035	°053	°009	°029	74°0	71°8	79°0	74°6	88°5	72°0	77°8	75°0	72°4	88°5	144°0	67°3	81°9	9°0	°17	
21	°045	°062	°042	°036	75°0	72°3	81°6	76°5	89°7	77°5	74°0	73°2	73°2	90°8	150°0	68°8	82°0	7°0	—	
22	°012	°087	°064	°041	70°8	69°2	75°6	72°8	85°8	77°7	71°0	70°3	69°0	88°3	148°8	67°0	82°1	8°0	°49	
23	°026	°088	°003	°063	68°8	67°5	78°0	74°8	86°0	77°0	70°8	69°0	68°0	86°0	148°5	65°5	82°0	7.5	°40	
24	°027	°048	°005	°054	71°0	69°0	78°3	75°0	89°5	77°5	75°5	73°2	68°2	90°5	144°5	66°2	81°8	8°8	°20	
25	°062	°081	°026	°120	68°5	68°3	73°6	72°9	83°0	76°1	75°7	73°0	68°0	87°2	154°5	66°0	81°8	5°7	°02	
26	°092	°105	°083	°104	74°1	73°0	83°0	79°7	77°9	73°4	72°5	72°0	72°0	83°0	149°0	71°4	81°8	0°3	°24	
27	°112	°125	°078	°079	69°2	68°2	78°5	71°2	76°0	73°0	72°0	70°0	66°2	79°0	147°8	68°0	78°1	1°0	4°50	
28	°061	°111	°084	°077	70°8	69°0	75°2	71°2	72°2	71°0	71°2	69°0	66°0	76°0	129°0	68°5	78°8	0°7	2°00	
29	°089	°123	°059	°077	71°0	70°0	75°0	73°0	75°8	71°0	72°3	68°5	68°0	77°0	132°0	68°0	78°4	0°2	1°00	
30	30°115	30°139	30°129	30°116	70°8	67°8	75°3	70°8	76°2	71°3	73°0	70°0	69°5	80°0	142°0	68°0	78°5	0°5	°05	
Mean	30°115	30°135	30°085	30°111	70°7	68°3	77°7	72°3	81°0	72°8	73°1	69°4	67°8	83°5	144°4	64°2	80°9	158°8	10°46	

Day.	LOWER CLOUDS.								WIND.			REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.	
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.		
1	Cum.	8	ENE	1	Str.	2	—	—	SSE 1	Calm 0	miles. 100	∞ ² a. Muggy and dull 2p.
2	Cum.	8	E	1	Cum.	9	S	2	Calm 0	ENE 1	110	
3	Cum.	7	E	2	Cum.-s.	2	—	—	SEbyE 1	Calm 0	230	Dull a. ∞ ² ga. Very fine p.
4	Cum.	8	E	3	Cum.	4	N	4	W 1	N 2	160	∞ ² n. ∞ ² (mist) on swamp 7a. Day very fine, with gusty wind p.
5	Cum.	7	NE	3	Cum.	5	NE	2	NE 3	E 1	210	Fine day.
6	Cum.	7	NE	2	Cum.	4	NE	2	ENE 1	Calm 0	165	Fine day, with ∞ ² . 4p. ● showers in the S. p.
7	Cum.	9	NE	2	Cum.	8	NNE	2	ESE 1	Calm 0	103	Dull 7a. Fine, with ∞ p.
8	Cum.	8	N	3	Cum.	5	ENE	1	SSW 1	NE 2	80	∞ ² (mist) on swamp 7a. Day fine, with ∞.
9	Cum.	9	ENE	3	Cum.	4	E	1	W 1	NNE 2	220	∞ ² (mist) on swamp 7a. Day dull.
10	Cum.	9	NE	3	Cum.	2	N	—	SbyE 1	N 2	180	∞ ² (mist) on swamp 7a. Day dull. Squally ● showers in S.
11	Cum. Nim.	9	E	2	Cum.	7	E	1	W 1	Calm 0	130	Very ugly in E. and S. 7a. Muggy 9a., ∞ ² (mist) on hills. ∞ ² 9p.
12	Cum.	7	E	3	Cum.	4	—	—	E 3	E 1	195	∞ ² (mist) on swamp, ● a. Day fine, with ∞.
13	Cum.	6	E	4	Cum.	6	SSE	2	S 1	Calm 0	180	∞ ² (mist) on swamp 7a. Day very fine.
14	Cum.	6	SE	1	Cum.	8	SE	2	S 1	E 1	150	Dull 7a. Day very fine.
15	Cum.	8	S	1	Cum.	9	SE	1	WbyS 1	Calm 0	130	Dull, with low clouds and ∞ ² (mist) a. ∞ ² 2p. ● in the S.
16	Cum.	5	SSE	3	Cum.	3	—	—	SbyW 1	E 1	245	∞ ² (mist) on swamp, ● in the S. 7a. ∞ ² 2p.
17	Cum.	7	E	3	Cum.-s.	2	—	—	WbyS 1	Calm 0	200	∞ ² (mist) on swamp 7a. Fine, with ∞ ² ga. ● ² on N. hills 2p. Very fine 9p.
18	Cum.	7	E	1	Cum.	10	E	2	W 1	Calm 0	140	∞ ² (mist) on swamp and hills a. ∞ ² (mist) on hills 2p.
19	Cum. Nim.	8	E	2	Cum.	4	—	—	E 3	Calm 0	305	∞ ² 7a. Clear 9a., with ● in SE. Squally ● showers 2p. < in SW.
20	Cum. Nim.	8	NE	2	Cum.	2	—	—	SE 3	Calm 0	185	Dull, with ∞ ² (mist) on hills a. Fine, with ∞ p. [fine 9p.]
21	Cum.	6	W	2	Nim.	10	—	—	E 2	Calm 0	150	Day fine, with ∞. ● ² 9p.
22	Cum.	6	E	2	Nim.	10	—	—	W 1	Calm 0	125	∞ ² (mist) on hills and swamp a. ● ² 9p.
23	Cum.	8	NE	2	Cum.-s.	8	ENE	2	SW 1	Calm 0	120	∞ ² (mist) on swamp and hills 7a. Day fine and clear. ● ² 7 p.
24	Str.	2	—	0	Cum. Nim.	10	—	—	W 1	E 1	110	∞ ² (mist) on swamp and hills 7a. Day very fine. ● ² 9p.
25	Cum.	6	E	2	Nim.	10	—	—	W 2	Calm 0	125	∞ ² till 9a. ● ⁰ showers 2p. ● 9p.
26	Nim.	10	—	3	Nim.	10	N	2	NW 3	NW 2	180	● ² 9p. early a. ● T in SW. 9a. ● ² 9p.
27	Cum. Nim.	9	SE	3	Nim.	10	—	—	NW 1	SE 4	160	● showers. ∞ ² (mist) on hills 2p.
28	Cum. Nim.	9	SE	3	Nim.	10	—	—	NNE 3	SE 2	190	∞ ² (mist) on hills, ● showers a. and p. Squally.
29	Cum. Nim.	9	E	2	—	10	—	—	S 2	N 3	180	∞ ² (mist) on hills and swamp a. and p. Very squally 9p.
30	Cum. Nim.	8	E	2	Cum.-Nim.	10	—	—	NE 2	Calm 0	185	Dull, with ∞ a. Threatening appearance 9a. Squally 2p.
Mean	—	7°5	—	2°2	—	6°6	—	—	1°5	0°8	164°8	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

MAY 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN-SHINE.	RAIN-FALL.
	At 32° Faht. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
	ins.	ins.	ins.	ins.	°	°	°	°	°	°	°	°	°	°	°	°	°	hours.	ins.	
1	30°098	30°111	30°114	30°085	72°0	68°8	77°0	70°0	77°5	74°5	73°5	68°2	69°5	79°0	128°0	69°0	78°7	2°0	°02	
2	°068	°087	°090	°087	69°4	67°8	77°0	73°8	79°0	73°2	73°7	70°0	67°3	83°0	143°4	63°9	78°3	6°3	—	
3	°109	°127	°112	°139	72°3	70°5	78°2	73°5	78°8	73°8	73°0	69°0	71°4	80°0	132°8	68°8	78°7	3°5	—	
4	°122	°159	°156	°178	71°2	68°7	78°0	73°5	81°0	75°3	73°0	68°5	68°5	81°5	145°0	63°0	78°7	8°5	—	
5	°170	°195	°163	°197	73°0	70°4	78°0	73°8	80°0	75°6	75°0	72°0	68°4	83°5	143°7	62°3	78°9	6°5	—	
6	°169	°169	°121	°145	74°0	71°0	80°0	75°0	80°0	77°0	74°0	72°0	72°8	81°4	147°0	67°5	79°0	5°7	—	
7	°131	°186	°115	°151	74°0	71°8	83°0	75°3	82°8	78°0	75°0	73°0	72°0	83°5	147°0	67°2	79°2	8°4	°08	
8	°107	°137	°076	°149	74°3	72°2	77°5	75°5	81°0	78°9	74°7	73°0	70°8	81°0	139°0	66°5	79°5	10°5	—	
9	°115	°086	°028	°067	74°5	72°8	79°0	78°0	81°0	80°0	74°0	73°0	72°0	81°0	143°0	67°9	79°9	6°5	°09	
10	°051	°072	°031	°068	75°8	73°0	78°0	76°0	73°5	78°0	74°5	73°5	71°0	81°0	144°0	70°0	80°0	1°0	°25	
11	°075	°102	°046	°079	75°0	74°0	77°0	74°0	82°0	74°0	72°0	74°5	71°8	82°0	142°0	70°0	79°0	5°7	2°64	
12	°091	°067	°015	°043	75°5	73°2	77°6	73°0	81°0	74°5	76°0	73°0	73°5	81°0	139°5	69°0	79°5	8°6	°13	
13	°068	°074	°008	°020	77°4	74°5	79°0	74°0	82°0	76°0	79°0	74°5	73°5	83°0	144°0	70°0	79°6	11°0	—	
14	°071	°080	°044	°076	76°8	74°0	79°0	74°8	81°4	75°6	75°5	74°0	74°0	83°0	143°0	70°5	79°8	7°5	—	
15	°082	°099	°036	°108	78°5	74°5	79°0	75°0	86°0	77°0	76°5	73°0	72°5	88°0	142°0	68°0	80°0	9°0	°07	
16	°119	°115	°062	°115	75°0	73°2	77°0	74°5	81°8	75°0	76°0	74°0	73°0	82°8	142°5	69°5	80°0	6°8	°23	
17	°135	°128	°065	°118	75°0	74°0	80°0	74°5	81°8	74°0	76°0	73°4	69°0	82°0	145°0	65°5	80°0	7°3	—	
18	°119	°126	°073	°117	73°2	72°5	78°0	76°2	81°8	75°0	75°5	73°0	71°0	82°0	143°0	67°0	80°0	6°5	°04	
19	°112	°140	°096	°116	78°0	73°0	77°0	73°0	81°8	75°0	75°0	74°0	71°0	82°0	145°0	70°0	80°0	5°5	°01	
20	°143	°153	°065	°088	73°0	71°5	74°0	73°0	80°9	75°0	75°5	73°0	70°0	81°0	146°0	66°0	80°0	3°8	°40	
21	°104	°105	°015	°060	74°0	73°0	78°0	76°0	81°7	75°7	75°5	74°0	71°5	82°0	147°5	67°0	80°0	6°8	°18	
22	°073	°086	°047	°055	74°0	73°0	79°0	74°8	82°0	75°8	76°5	73°0	73°0	83°0	147°0	70°0	80°0	9°0	°10	
23	°070	°073	°051	°065	77°0	74°8	77°5	74°8	82°0	75°7	76°0	73°0	73°0	83°5	141°0	70°0	80°0	4°8	°70	
24	°068	°071	°010	°063	76°2	74°0	79°6	76°0	83°0	77°0	75°0	73°0	71°0	83°0	143°5	70°0	80°0	5°2	°25	
25	°075	°073	°057	°084	74°2	73°0	80°0	76°8	83°0	77°2	76°0	73°0	72°0	84°0	133°0	70°0	80°0	2°7	°13	
26	°082	°084	30°061	30°068	77°0	74°2	82°0	77°0	75°0	72°0	76°0	75°0	75°0	87°0	146°0	71°0	80°0	2°0	°61	
27	30°028	°018	29°979	29°982	76°0	75°0	80°0	78°0	78°0	72°0	75°0	73°0	72°0	85°0	140°5	72°0	80°0	7°3	°07	
28	29°997	°010	29°992	30°031	74°8	73°9	79°0	76°0	81°0	75°2	73°0	74°0	72°5	81°0	121°0	71°0	80°0	0°5	°38	
29	30°023	°079	30°074	°119	74°7	73°7	78°0	76°0	81°5	76°0	76°0	73°0	71°5	82°0	129°0	71°0	80°0	0°0	°06	
30	°126	°124	°111	°129	78°5	75°0	80°0	75°0	81°5	75°5	76°0	73°0	73°5	82°0	143°0	70°0	79°9	7°3	—	
31	30°106	30°103	30°073	30°089	76°0	75°0	80°0	76°0	78°5	75°0	73°2	73°0	71°5	81°0	132°0	71°0	79°5	0°2	1°17	
Mean	30°094	30°104	30°064	30°093	74°9	72°7	78°6	74°9	80°7	75°3	75°0	72°4	71°6	82°4	140°9	68°5	79°6	176°4	7°61	

LOWER CLOUDS.									WIND.				REMARKS.	
Day.	9 A.M.				9 P.M.				Direction and Force.		Vel.			
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.				
1	Cum.-s.	5	—	2	—	10	—	—	N 2	N 3	miles.	95	Fine and clear a. ∞ 2p. Dull and squally 9p.	
2	—	0	—	0	Cum.	8	—	—	W 1	Calm 0	120	120	Fine all day.	
3	Cum. Nim.	8	E	2	Str.	1	—	—	ESE 2	Calm 0	110	110	Dull and ugly a. Fine p. ∞ 9p.	
4	Cum.	5	E	2	Str.	1	—	—	WSW 1	E 1	200	200	∞ 7a. Fine all day.	
5	Cum.	3	—	1	Cum.	2	—	—	SE 1	Calm 0	190	190	Fine all day. ∞ ⁰ 2p.	
6	Cum.	4	S	3	Cum.	6	SE	2	E 2	Calm 0	145	145	Fine and fresh 7a. ∞ 9a. and 2p. Close, with ● ⁰ showers 9p.	
7	Cum.	5	E	1	Cum.	3	—	—	E 2	Calm 0	205	205	∞ a. Fine all day.	
8	Cum.	5	E	2	Cum.	4	E	2	ESE 4	Calm 0	225	225	Very fine a. ∞ 2p.	
9	Cum.	4	E	1	—	10	—	—	ESE 4	Calm 0	315	315	∞ 7a. Dark in S., with T there 2p. Close and ugly 9p. < in SW.	
10	Cum.	7	NE	3	Nim.	10	—	—	ESE 3	ENE 2	240	240	● ² T from S. p. Dark and ugly 9p. < in E.	
11	Cum.	7	E	5	—	10	—	—	ESE 2	E 1	300	300	● n. Fine, with ∞ 9a. and 2p. Dark and ugly 9p.	
12	Cum.	8	E	2	Cum.	8	E	2	E 3	E 2	199	199	● n. Day fine. ∞ p.	
13	Cum.	6	E	1	Cum.	8	S	2	E 3	S 2	321	321	Fine all day, with ∞. ● showers in ESE. 2p.	
14	Cum.	5	E	1	Cum. Nim.	8	E	2	ESE 2	Calm 0	260	260	∞ ⁰ (mist) on N. hills 7a. ∞ ² a. ● in S. p. T in S. 3p. < in W. 9p.	
15	Cum.	5	ESE	2	Cum.	9	S	2	ESE 2	Calm 0	210	210	Day fine, with ∞.	
16	Cum.	8	E	3	Cum.	7	E	1	ESE 3	Calm 0	190	190	∞ ⁰ (mist) on N. hills, ● a. Fine, with ∞ ² p.	
17	Cum.	4	ESE	3	Cum.	9	E	2	W 1	Calm 0	155	155	Fine all day. ∞ ² 2p.	
18	Cum.	10	E	3	Cum.	10	ESE	4	SbyW 1	E 1	185	185	Dull and muggy a. ∞. Fine p.	
19	Cum.	9	E	3	Cum.	4	—	—	ESE 2	E 1	238	238	Ugly in S., with ● 7a. Fine, with ∞, p.	
20	Cum. Nim.	10	E	2	Cum.	10	E	2	E 1	Calm 0	332	332	Muggy, with ● ⁰ , a.	
21	Cum.-s.	8	S	2	Cum.	10	SE	4	NNE 2	N 1	100	100	Dull and muggy, with ● showers.	
22	Cum.	8	E	4	Cum.	10	E	2	ESE 2	E 1	240	240	Dull, clouds low, 7a. Fine from 9a., with ∞.	
23	Cum.	8	E	4	Cum.	10	E	1	E 2	E 1	215	215	● n. Day fine, with ∞ ² p. Distant K in SW. 9p.	
24	Cum.	6	E	2	Cum.	9	E	2	ESE 2	Calm 0	230	230	● n. Fine, with ∞. K in S. 4p.	
25	Cum.	6	SW	1	Nim.	10	—	—	E 1	Calm 0	175	175	∞ ⁰ (mist) on swamp 7a. ∞ ² 2p. K in S. p., in E. 8p. ● ² 9p.	
26	Cum.	6	E	2	Cum.	9	E	2	E 1	Calm 0	210	210	● n. Very dull, with ∞ ⁰ , a. T in SW. 2p. [T in SE. Very dull 9p.	
27	Cum.	6	E	2	Cum. Nim.	10	—	—	WSW 1	Calm 0	100	100	∞ ⁰ (mist) on hills, clouds low, 7a. Squally at 2p., with ● in S., and	
28	Cum.	10	E	2	Cum.	10	—	—	ESE 2	Calm 0	100	100	∞ ⁰ (mist) on hills and swamp 7a. Day very dull and close. K p.	
29	Cum.	10	E	2	Cum.	10	—	—	WSW 1	Calm 0	100	100	∞ ⁰ (mist) on swamp and hills 7a. Dull, close and muggy.	
30	Cum.	10	E	1	—	10	—	—	E 2	Calm 0	125	125	∞ ⁰ (mist) on swamp 7a. Very dark 9p.	
31	Cum. Nim.	10	—	1	Cum. Nim.	10	—	—	E 1	Calm 0	155	155	● n. ∞ ⁰ (mist) on hills a. Squally, with ● ² 11a. Dull and close p.	
Mean	—	6°6	—	2°1	—	7°9	—	—	1°9	0°5	193°1			

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

JUNE 1888.

Day.	BAROMETER.				TEMPERATURE.														Earth.	SUN-SHINE.	RAIN-FALL.
	At 32° Fah. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.						
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.					
1	ins. 30°087	ins. 30°105	ins. 30°046	ins. 30°077	75°0	73°2	79°5	74°8	84°0	77°5	75°0	73°0	71°5	85°0	139°0	68°5	79°0	hours. 1'8	ins. '98		
2	'107	'112	'066	'073	76°4	75°0	81°7	77°5	80°7	78°8	78°2	76°3	74°0	85°0	142°5	72°0	79°2	10°3	—		
3	'121	'111	'052	'074	77°0	75°4	81°0	78°2	85°0	78°5	79°0	76°0	75°0	85°0	139°0	70°5	79°7	10°7	'18		
4	'103	'110	'054	'108	79°0	77°0	81°0	78°0	84°5	78°0	78°0	74°8	76°0	85°0	138°0	73°5	80°0	11°3	—		
5	'132	'128	'093	'126	78°5	76°0	81°5	77°0	84°0	76°0	78°0	74°0	74°5	86°0	147°0	70°0	80°0	7°7	—		
6	'107	'095	'070	'076	77°0	75°0	79°2	77°0	80°0	77°0	78°0	76°5	72°5	84°0	139°0	70°5	80°4	2°0	—		
7	'071	'070	'034	'069	73°7	72°8	79°0	76°0	85°0	78°2	74°0	73°5	72°0	85°0	143°0	71°0	80°7	6°8	'05		
8	'081	'070	'040	'069	70°5	70°0	79°8	77°0	85°5	77°0	76°0	74°0	69°0	87°0	145°0	67°5	80°8	7°5	'12		
9	'110	'107	'087	'108	76°0	74°4	75°8	74°9	81°2	76°5	73°5	72°5	70°0	84°0	146°0	67°5	80°8	6°0	'70		
10	'120	'115	'054	'123	75°0	73°8	79°5	77°0	84°2	78°5	78°8	75°0	72°0	84°5	145°0	69°0	80°8	8°0	1°35		
11	'121	'123	'083	'101	77°0	75°8	80°5	77°0	83°7	78°0	78°0	74°0	73°5	85°0	139°0	72°0	80°3	3°8	'75		
12	'132	'145	'086	'129	76°8	74°0	81°0	77°0	84°0	78°0	75°2	74°6	74°0	84°0	138°0	71°5	80°5	9°5	'05		
13	'137	'152	'092	'123	78°0	74°0	80°0	75°5	83°8	77°0	78°0	74°0	74°0	84°0	144°0	70°5	80°5	9°2	'73		
14	'104	'114	'071	'080	77°0	74°5	80°5	76°0	81°0	78°0	76°5	72°0	71°0	84°0	143°0	68°5	80°6	8°7	—		
15	'067	'079	'068	'067	74°5	74°0	77°0	75°0	82°5	76°2	73°0	72°2	70°0	82°0	145°0	68°0	80°3	1°3	'27		
16	'085	'096	'039	30°067	75°0	73°4	81°5	77°8	84°8	77°0	76°0	74°0	72°0	85°0	132°0	69°0	80°0	12°0	1°67		
17	'054	'051	30°004	29°992	76°0	74°0	81°8	77°0	87°5	78°5	79°0	76°0	72°5	88°0	143°0	70°0	80°2	10°8	'02		
18	'004	'015	29°996	30°023	81°0	77°0	81°8	76°8	86°0	80°0	79°0	78°0	76°0	87°0	145°0	72°0	80°5	11°0	—		
19	'063	'066	30°002	'020	78°0	74°5	81°0	77°2	86°0	80°8	79°0	76°0	76°5	89°0	143°0	72°5	81°0	9°3	—		
20	'068	'066	29°996	'044	81°5	78°0	82°0	77°8	87°6	79°4	82°4	77°0	77°0	88°0	150°0	72°5	81°0	8°8	—		
21	'054	'050	30°015	'024	80°5	78°0	82°0	77°8	81°0	77°0	79°0	76°0	78°0	87°0	147°5	74°0	81°5	5°3	—		
22	'063	'062	'031	'055	80°0	77°2	83°0	78°0	81°0	78°0	78°0	77°0	78°0	85°0	146°5	69°5	82°0	6°5	—		
23	'071	'065	'055	'115	78°4	76°0	81°0	77°0	85°0	78°0	71°5	71°0	71°5	87°0	146°0	72°5	81°9	4°8	'50		
24	'119	'123	'106	'123	74°0	73°0	78°6	76°8	85°0	77°2	78°0	75°0	70°0	86°0	152°0	69°0	80°1	9°5	3°80		
25	'127	'126	'080	'101	78°6	77°0	81°0	77°0	85°0	79°0	76°0	75°0	75°0	85°0	140°0	75°0	80°8	10°3	'31		
26	'107	'116	'082	'109	80°0	76°8	81°0	77°8	81°0	75°8	76°0	75°0	74°0	84°0	146°8	71°5	81°0	8°2	—		
27	'115	'112	'069	'113	74°0	73°5	82°5	76°0	84°0	77°0	77°0	75°0	73°0	84°0	145°0	72°0	81°0	9°0	'48		
28	'110	'129	'116	'139	76°0	75°0	77°5	75°0	79°5	75°0	74°5	72°5	74°0	82°0	127°0	71°0	81°0	0°7	'17		
29	'135	'148	'106	'143	75°8	74°8	81°0	76°0	84°9	78°0	77°5	76°0	72°0	85°0	145°5	70°0	80°9	7°0	'70		
30	30°161	30°168	30°107	30°127	76°4	75°0	82°0	79°0	85°0	77°0	77°0	75°0	73°0	85°0	144°0	70°0	81°0	12°0	'01		
Mean	30°098	30°101	30°060	30°087	76°9	74°9	80°6	76°8	83°7	77°5	77°1	74°5	73°4	85°2	143°0	70°6	80°6	229°8	12°84		

Day.	LOWER CLOUDS.								WIND.				REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.		
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.			
1	Cum.-s.	9	SW	1	Cum.	6	S	1	E 2	ENE 1	100	● n. ☼ (mist) on N. hills a. Very fine 9p., with ☼ in SW.	
2	Cum.	3	E	1	Cum.	5	—	—	ESE 2	ENE 1	165	Distant T ² in SW. noon. ☼ here 0.7p.—1.15p. ☼ from S. 0.30p.,	
3	Cum.	4	E	1	Cum.	8	E	1	SE 1	E 1	165	☼ ⁰ (mist) on swamp 7a. Fine day. ☼ showers in the S. [with ☼ ² .	
4	Cum.	7	E	1	Cum.	4	—	—	ESE 2	Calm 0	155	☼ (mist) on N. hills a. Distant ☼ in S. p. Very fine 9p., with ☼	
5	Cum.	6	E	1	Cum.	7	E	1	E 2	Calm 0	255	Fine a. Very close 2p. Very fine 9p.	
6	Cum.	6	E	1	Cum.	9	SE	1	SE 1	E 1	101	☼ ⁰ (mist) on swamp 7a. Very dull 2p.	
7	Cum.	9	E	1	Cum. Nim.	10	—	—	W 1	W 1	110	☼ in S. 3p., passing westward. Waterspout in the S. ☼ ⁰ 9p.	
8	Cum.	6	SE	2	Cum.	8	S	1	W 1	Calm 0	95	Sultry a. ☼ ² from S. 1p.—3p. ☼ in squall 2p. ☼ in S. 9p.	
9	Cum.	5	E	1	Cum.	4	—	—	WSW 1	Calm 0	75	T in S. 10a. ☼ ² 2p. ☼ ² 2.20p. ☼ in W. 6p.—7p. ☼ in W. 9p.	
10	Cum.	4	E	1	Cum.	8	S	1	W 1	E 1	100	☼ ⁰ (mist) on swamp and hills a. ☼ ² in S. 6p.—9p. ☼ in E. 9p.	
11	Cum.-s.	9	E	2	Cum.	8	S	1	E 2	E 1	245	☼ ² early a. ☼ ⁰ (mist) a. Fine, with ☼ 2p. Distant T in S. p.	
12	Cum.	6	ESE	2	Cum. Nim.	10	—	—	ESE 2	Calm 0	210	☼ ⁰ (mist) on swamp and hills 7a. Fine, with ☼ 2p. Distant T in S.	
13	Cum.	4	E	1	Cum.	9	E	1	E 2	E 1	205	Fine all day. ☼ p.	
14	Cum.	7	E	2	Cum.	3	—	—	ESE 2	E 1	200	Fine a. ☼ ⁰ (mist) on hills 2p. ☼ showers. Very fine 9p., with ☼	
15	Cum.	7	E	1	Cum.	3	—	—	SW 1	Calm 0	125	Double ☼ 7a. ☼ ² 0.30p.—1p., passing to N. T ² 1.30p.—2p.	
16	Cum.	6	E	2	Cum.	7	ESE	2	E 2	Calm 0	75	☼ ⁰ (mist) on hills 7a. Day very fine. T in SW. p. Dull at 9p.	
17	Cum.	5	E	1	—	0	—	—	ESE 1	Calm 0	180	Fine all day.	
18	Cum.	1	—	0	Cum.	1	—	—	E 2	E 1	200	Fine all day. T ² 1.30p.—4p. ☼ in SE. 4.30p. ☼ 9p.	
19	Cum.	6	SW	1	Cum.	10	—	—	E 1	ENE 1	200	☼ ⁰ (mist) on N. hills a. ☼ during day. T in S. 1p. ☼ 3p.—5p.,	
20	Cum.	4	SE	1	Cum.	10	—	—	ESE 2	ESE 3	215	Fine all day, with ☼.	
21	Cum.	3	E	1	Cum.	10	S	1	ESE 2	Calm 0	295	☼ a. ☼ ² in SW. noon—1p. ☼ ² overhead 6.45p.—7p.	
22	Cum.	7	E	1	Cum.	10	—	—	ESE 2	Calm 0	145	☼ ⁰ (mist) 7a. ☼ 9a. ☼ ⁰ 11a., passing W. to E. ☼ 8p.	
23	Cum.	4	E	1	Nim.	10	—	—	ESE 2	Calm 0	80	Fine a. ☼ in E., passing to W. 2p. ☼ ² overhead 5p.—8p.	
24	Cum.	5	E	1	Nim.	10	—	—	W 1	SE 2	125	☼ ⁰ (mist) a. ☼ ² in S., passing to W. 1p.—2p. ☼ ² overhead	
25	Cum.	7	E	2	Cum.	9	SW	1	ESE 2	E 1	100	● n. ☼ ⁰ (mist) on swamp 7a. Day fine. ☼ 2p.	
26	Cum.	7	E	3	Cum.	9	SE	2	W 1	E 1	265	Fine, with ☼ a. Sultry looking in S. 2p.	
27	Cum.	9	E	3	Cum.	4	—	—	ESE 3	E 1	195	☼ 6a. ☼ ⁰ (mist) on N. hills 7a. Day fine, with ☼.	
28	Cum.	9	E	2	—	10	—	—	E 2	Calm 0	250	☼ early a. Muggy, with ☼ ⁰ (mist) on hills, 7a. Distant T 1p. ☼	
29	Cum.	5	E	1	Cum.	8	E	2	ESE 3	Calm 0	100	Ugly in S. 2p. T ² in S. 3p.	
30	Cum.	9	E	1	Cum.	7	SSE	2	SE 1	Calm 0	95	☼ ⁰ (mist) on hills and swamp 7a. Close and muggy 9a. ☼ in S. 4p.	
Mean	—	6°0	—	1°3	—	7°2	—	—	1°7	0°6	160°9		

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

JULY 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN-SHINE.	RAIN-FALL.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
1	ins. 30°129	ins. 30°124	ins. 30°087	ins. 30°120	78°2	76°0	80°0	77°0	81°2	75°0	81°0	76°5	73°5	85°0	149°0	71°0	81°0	hours. 8°5	ins. —	
2	°097	°118	°084	°104	79°0	75°0	81°5	77°0	83°0	77°4	80°0	76°0	74°5	85°8	149°0	71°5	81°0	8°3	—	
3	°127	°115	°095	°144	79°0	76°4	81°8	77°5	86°5	78°0	82°0	77°5	77°0	90°0	148°0	73°0	81°3	9°0	°05	
4	°140	°158	°117	°112	79°6	76°5	83°8	78°7	86°0	78°0	79°0	75°0	75°0	86°0	142°0	71°0	81°9	10°5	—	
5	°111	°098	°092	°102	77°4	75°2	80°0	77°8	83°0	77°0	78°5	75°5	73°0	89°0	147°0	71°0	82°0	6°3	°06	
6	°115	°131	°104	°144	79°8	77°0	82°0	76°5	85°8	78°0	80°0	75°0	75°0	86°0	140°0	71°0	82°0	10°7	—	
7	°155	°168	°126	°158	77°5	74°2	79°9	76°0	85°0	78°0	76°5	74°0	72°0	87°0	146°0	70°0	82°4	7°5	°11	
8	°154	°150	°139	°170	77°5	74°2	83°0	77°0	85°0	79°0	80°0	76°0	73°0	87°0	143°0	71°0	82°5	9°5	—	
9	°171	°160	°157	°163	76°8	74°5	84°0	78°0	86°0	79°0	77°0	76°0	72°5	86°5	146°0	69°5	82°8	10°3	—	
10	°179	°186	°153	°169	78°4	75°8	83°5	79°0	83°8	79°0	77°0	76°5	72°5	87°0	146°0	70°5	83°0	7°7	—	
11	°157	°178	°141	°144	80°5	76°5	83°0	78°2	84°0	78°5	79°6	76°0	77°0	86°0	144°0	69°5	83°0	11°8	°54	
12	°157	°154	°086	°115	80°0	79°0	81°0	79°0	85°5	80°0	79°5	78°5	76°5	85°5	139°0	75°0	83°0	9°5	°20	
13	°063	°108	°052	°069	77°8	76°5	82°0	78°0	86°0	77°6	77°5	74°0	75°0	86°0	139°3	72°0	83°0	11°7	°28	
14	°088	°100	°054	°104	77°9	75°2	81°5	76°0	85°0	78°0	80°0	75°5	74°0	86°0	142°0	70°8	83°0	9°0	—	
15	°107	°115	30°052	°062	76°5	74°5	81°7	78°0	86°0	79°0	80°0	76°0	73°8	86°0	142°0	71°0	83°0	11°0	—	
16	°070	°054	29°990	°018	78°0	76°4	82°0	79°0	86°0	79°0	79°0	76°0	73°5	86°0	142°0	72°0	83°1	9°2	°03	
17	°129	°120	30°002	°059	77°6	75°0	81°0	79°0	81°5	76°5	77°0	75°0	75°0	82°5	121°0	73°0	83°1	2°0	°09	
18	°093	°099	°041	°114	76°0	75°0	82°0	78°9	84°0	78°0	79°0	76°0	75°0	86°0	150°0	72°0	83°2	5°6	°02	
19	°104	°120	°088	°119	75°0	74°5	81°0	78°0	83°8	78°5	74°0	72°0	72°5	85°0	150°0	72°0	83°1	6°7	°10	
20	°087	°112	°076	°128	74°0	72°5	79°5	76°0	76°5	75°0	74°5	72°5	70°0	85°0	150°5	68°0	83°0	6°8	°23	
21	°080	°109	°083	°126	76°0	73°0	82°0	78°0	77°0	74°5	75°0	74°5	70°0	84°0	144°0	69°0	82°7	7°0	°03	
22	°135	°156	°104	°150	77°0	74°0	79°0	75°0	85°0	78°0	79°0	74°0	72°0	85°0	143°0	70°0	82°6	6°0	°53	
23	°172	°170	°128	°126	76°5	74°0	81°0	77°2	86°0	75°0	78°9	74°5	73°0	86°0	139°0	70°0	82°6	10°5	—	
24	°165	°170	°115	°136	77°5	76°0	81°0	78°0	86°0	78°0	76°0	75°0	74°0	86°0	146°0	72°0	82°8	6°8	°05	
25	°164	°138	°078	°076	76°8	74°0	81°0	78°0	82°2	77°0	77°0	75°0	72°5	85°5	151°5	70°0	82°8	2°2	°02	
26	°109	°118	°066	°085	79°8	76°0	81°2	77°0	85°0	78°2	79°0	75°0	75°0	85°0	145°0	70°5	83°0	9°5	°12	
27	°089	°104	°075	°068	77°8	76°7	83°2	77°5	85°0	76°5	79°0	75°0	75°0	85°0	148°0	72°5	83°0	8°5	°07	
28	°096	°105	°050	°099	80°2	78°0	77°9	76°0	85°2	79°5	76°0	75°0	75°0	86°0	147°0	73°0	83°0	3°7	°33	
29	°064	°068	°035	°069	77°0	75°0	82°0	78°0	84°6	78°0	76°0	74°5	73°0	86°0	146°0	72°0	83°0	11°0	°19	
30	°073	°066	°007	°054	78°5	76°0	82°0	78°0	85°5	78°0	79°0	74°0	74°0	86°0	141°5	71°0	83°0	10°5	—	
31	30°066	30°068	30°029	30°080	78°0	76°0	80°0	77°9	74°0	70°5	74°0	73°5	73°0	87°0	144°0	71°0	83°0	7°3	°17	
Mean	30°118	30°124	30°081	30°109	77°8	75°4	81°4	77°6	83°8	77°5	78°1	75°0	73°8	86°0	144°2	71°2	82°6	254°6	3°22	

Day.	LOWER CLOUDS.]								WIND.			REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.	
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.		
1	Cum.	4	S	2	Cum. Nim.	9	—	—	ESE 2	SE 3	miles. 145	Fine, with ∞ a. T from S. 2p. ∞ ² 9p. < in E.
2	Cum.	6	E	2	Nim.	10	—	—	ESE 2	Calm 0	135	∞ ² a. T from E. 2p. K ² in ESE, passing S. to N., 7p.—8p.
3	Cum.	6	E	2	Cum.	7	—	—	ESE 3	S 1	160	∞ ⁰ (mist) on N. hills 7a. Day fine, with ∞. 5p.
4	Cum.	5	E	1	Cum.	6	E	1	SSE 1	ESE 2	215	∞ ⁰ (mist) on swamp 7a. Day fine, with ∞ ² .
5	Cum.	6	E	1	Cum.	9	E	2	W 1	E 1	175	∞ ⁰ (mist) on swamp and hills a. K in S. 1p. < in E. 9p.
6	Cum.	6	E	3	Cum.	9	E	2	ESE 2	E 2	165	∞ ⁰ (mist) on swamp 7a. Day fine, with ∞ ² . < in E. 9p.
7	Cum.	5	E	1	Cum.	8	E	2	W 1	E 1	205	∞ ⁰ (mist) on swamp and N. hills a. ∞ ² p. T in the N.
8	Cum.	8	E	1	Cum.	6	E	2	ESE 4	E 1	170	Fine all day, with ∞ ² .
9	Cum. Nim.	9	E	2	Cum.	9	E	2	ESE 3	E 1	180	∞ ⁰ (mist) on swamp 7a. Day fine, with ∞.
10	Cum.	8	E	2	Cum.	3	—	—	ESE 2	Calm 0	155	Fine, with ∞, a. Very close and muggy. T in S. 2p. K in E. 9p.
11	Cum.	7	E	2	Cum.	4	—	—	EbyN 3	S 1	150	Day fine, with ∞.
12	Cum.	9	E	2	Cum.	6	E	2	ESE 1	Calm 0	200	Muggy and close, with ∞ ⁰ 7a. Fine, with ∞ ² p.
13	Cum.	7	E	2	Cum.	3	—	—	SSW 0.5	Calm 0	230	∞ ⁰ (mist) on N. hills 9a. Fine, with ∞, p. < in W. 9p.
14	Cum.	5	SSE	2	Cum.	9	S	2	ESE 3	E 1	205	∞ ² n. Very fine a. K ⁰ in S. and E. p. Squall from SE. 4p.
15	Cum.	5	E	3	Cum.	5	—	—	E 1	Calm 0	177	∞ a. Fine all day. < in W. 9p.
16	Cum.	6	E	2	Cum.	5	SSE	1	SSW 1	Calm 0	175	∞ ⁰ (mist) on swamp and N. hills a. Close 9a. Very fine p.
17	Cum.	9	SE	2	Cum.	8	—	—	ESE 3	Calm 0	225	∞ ⁰ (mist) 9a. K ⁰ in ESE. 4p.—6p. Squall from ESE. 5p.
18	Cum.	8	E	2	Cum.	10	—	—	ESE 3	Calm 0	185	∞ and ∞ ⁰ (mist) a. Very dark in S. 2p. Distant T. Very dark 9p.
19	Cum.	9	E	3	Cum.	10	—	—	ESE 1	Calm 0	150	Muggy and close a. Very sultry 2p. T 4p. ∞ ² 9p.
20	Cum.	6	E	2	Cum.	7	E	2	SSW 1	Calm 0	185	T at noon. Very dull 2p. Fine, with ∞ ² 9p. < in the S.
21	Cum.	7	E	2	Cum.	10	—	—	SSE 1	Calm 0	85	∞ ⁰ (mist) on swamp 7a., on hills 2p. ∞ ² 1p. ∞ ² 9p.
22	Cum.	4	—	0	Cum.	8	E	2	Calm 0	E 1	135	∞ ⁰ (mist) on swamp 7a. Day fine, with ∞.
23	Cum.	6	E	3	Cum.	8	E	1	SSW 1	E 1	170	∞ ⁰ (mist) on swamp 7a. Day fine, with ∞.
24	Cum.	6	SSE	3	Cum.	9	—	—	W 1	Calm 0	195	∞ ⁰ (mist) on swamp and N. hills a. K ² in SW., passing to W. 2p.
25	Cum.	10	E	1	Cum.	10	—	—	S 1	E 1	150	∞ ⁰ (mist) a. T in SE. 11a.—3p. ∞ ² from E. 3p. K in W. and [N. 4p.
26	Cum.	4	ESE	3	Cum.	4	E	1	E 2	E 1	135	Very fine day.
27	Cum.	6	E	3	Cum.	6	E	2	ESE 3	E 1	215	∞ n. ∞ ⁰ (mist) on N. hills 9a. Day fine, with ∞. < in S. 9p.
28	Cum. Nim.	10	E	1	Nim.	10	—	—	S 1	Calm 0	145	∞ ⁰ (mist) ∞ ⁰ a. Very ugly in S. 2p. K from ESE. p. ∞ 9p.
29	Cum.	6	E	1	Cum.	8	E	2	E 1	Calm 0	165	Fine day. ∞ showers in the S. 2p.
30	Cum.	5	E	1	Cum.	6	—	—	SE 1	Calm 0	180	∞ ⁰ (mist) on swamp 7a. Very fine day. ∞ 9p., with < in S.
31	Cum.	5	SE	3	—	10	—	—	E 1	Calm 0	185	∞ ⁰ (mist) on N. hills a. K in S. noon—2p. Squall, with ∞, [2p.—2.30p. Muggy 9p.
Mean	—	6°5	—	1°9	—	7°5	—	—	1°7	0°6	172°5	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge 1 foot above ground.

AUGUST 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN-SHINE.	RAIN-FALL.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
1	ins. 30°082	ins. 30°102	ins. 30°054	ins. 30°098	74°0	72°0	82°0	78°0	85°5	77°0	79°0	75°0	73°0	86°0	140°0	72°0	83°0	hours. 10°0	ins. °44	
2	°097	°098	°052	°117	79°0	77°4	81°5	78°5	86°5	79°2	80°0	76°0	75°0	86°5	144°0	73°0	83°0	10°5	°06	
3	°123	°112	°058	°098	79°0	76°2	84°0	78°0	87°0	78°0	79°0	76°0	75°0	87°0	143°0	73°0	83°0	10°2	—	
4	°114	°106	°043	°066	76°6	74°0	80°2	76°5	85°0	77°0	79°0	75°0	72°5	87°5	148°0	70°0	83°0	11°7	—	
5	°081	°070	°012	°055	76°5	74°0	80°0	76°5	83°0	79°0	78°0	76°0	72°5	87°5	142°5	70°0	83°2	10°0	—	
6	°072	°070	°044	°048	76°0	75°0	79°0	77°0	86°0	79°0	79°2	76°0	75°0	88°4	154°0	73°0	83°3	6°0	°43	
7	°071	°088	°062	°073	79°0	77°2	82°9	80°0	83°0	77°5	78°5	74°0	76°0	83°5	139°0	74°0	83°5	6°5	°10	
8	°060	°068	°050	°070	77°0	75°0	81°0	76°0	85°5	79°0	77°0	76°0	73°0	89°0	147°0	70°5	83°3	6°2	—	
9	°074	°088	°068	°092	78°5	76°0	84°0	78°0	79°5	77°0	75°5	75°0	73°5	85°0	148°0	72°0	83°1	3°2	°80	
10	°117	°112	°073	°070	77°6	75°0	83°0	76°0	86°6	76°0	80°0	75°0	72°5	87°0	148°0	70°5	83°0	8°5	°46	
11	°059	°099	°053	°120	77°2	75°2	81°5	75°2	85°9	78°2	76°5	75°0	76°0	86°5	148°0	72°5	83°0	9°0	°19	
12	°132	°131	°082	°092	78°5	76°0	81°9	78°0	87°0	78°0	79°5	75°5	74°0	87°0	141°0	72°0	83°0	7°0	°24	
13	°076	°077	°050	°068	78°5	76°0	83°0	79°0	81°0	79°2	77°0	74°0	72°0	87°5	149°0	69°0	83°0	6°0	—	
14	°102	°096	°062	°117	77°8	75°4	82°0	78°0	82°5	75°0	77°0	73°5	74°0	86°0	144°5	71°0	83°0	5°2	°23	
15	°116	°120	°096	°107	77°9	75°0	81°5	77°8	85°5	79°8	79°0	73°0	73°8	86°0	145°0	71°0	83°0	10°3	—	
16	°123	°120	°052	°104	79°6	76°5	82°0	78°0	86°0	78°2	79°0	74°0	71°5	86°0	145°5	69°0	83°0	9°0	—	
17	°129	°126	°088	°130	77°0	75°4	78°5	76°0	86°0	78°0	80°0	75°0	72°0	87°0	141°5	69°0	82°8	10°3	1°07	
18	°142	°146	°106	°138	77°0	75°0	80°0	77°0	86°6	77°7	79°0	75°0	74°0	87°0	147°0	71°0	82°7	10°5	—	
19	°144	°142	°114	°119	79°6	76°0	84°8	78°0	86°6	78°5	78°0	74°2	73°0	86°6	142°5	70°5	82°8	10°0	—	
20	°122	°120	°052	°096	78°6	76°0	80°5	76°5	86°0	79°0	79°0	74°0	73°0	87°0	144°5	69°5	83°0	8°5	—	
21	°079	°096	°053	°102	78°0	75°4	80°5	76°6	87°0	78°0	80°0	74°0	74°0	87°0	142°0	70°5	83°0	9°0	—	
22	°087	°112	°036	°068	76°5	74°0	81°0	77°9	86°0	79°0	80°0	75°0	71°0	88°0	148°0	68°0	83°0	9°7	—	
23	°104	°108	°052	°085	79°0	75°0	84°0	77°0	85°5	79°2	77°5	78°0	74°0	86°0	143°0	73°0	83°1	9°5	—	
24	°028	°061	°001	°026	80°6	75°0	84°0	78°0	75°0	75°5	77°5	74°0	74°0	87°0	147°0	70°0	83°2	6°2	—	
25	°028	°024	°006	°064	77°0	75°0	81°0	76°5	81°0	77°2	76°0	75°0	75°0	83°0	116°0	72°0	82°8	0°8	1°60	
26	°072	°073	30°007	°068	76°0	74°0	82°0	76°8	85°0	77°0	76°8	73°0	73°0	86°0	144°0	71°5	81°9	9°3	3°45	
27	°030	°052	29°974	°008	73°5	72°6	82°5	79°0	86°0	79°5	77°0	76°0	71°5	88°0	143°0	68°5	82°0	5°3	°46	
28	30°017	30°018	°970	30°002	76°4	74°0	82°6	79°0	83°5	78°0	76°2	75°0	73°0	89°0	153°0	71°0	82°0	6°0	—	
29	29°983	29°990	°928	29°996	77°0	75°5	82°0	78°0	86°0	78°0	78°0	76°0	73°0	86°5	141°0	70°0	82°1	9°5	°06	
30	30°006	30°030	°937	30°001	75°0	74°5	82°8	78°2	86°0	77°2	77°0	73°5	71°5	86°0	141°5	68°0	82°0	10°0	°62	
31	30°036	30°040	29°970	30°002	78°0	74°6	83°8	77°8	86°5	79°0	79°6	75°5	73°0	89°0	149°0	70°0	82°0	6°7	—	
Mean	30°081	30°087	30°039	30°074	77°5	75°0	81°9	77°5	84°9	78°0	78°2	74°7	73°4	86°8	144°2	70°8	82°8	25°6	10°21	

Day.	LOWER CLOUDS.								WIND.			REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.	
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.		
1	Cum.	8	E	3	Cum.	6	—	—	E 3	Calm	140	Muggy, with ☉ showers 7a. Day fine, with ∞. < in S. 9p.
2	Cum.	8	SE	4	Cum.	2	—	—	ESE 3	E 1	215	☉ n. Day fine, with ∞. Distant T in S. p. < in W. 9p.
3	Cum.	8	E	2	—	5	—	—	ESE 2	Calm	315	Day fine, with ∞.
4	Cum.	4	—	1	Cum.	6	—	—	SSW 1	NE 2	129	Fine, with ∞ a. Very close 2p.
5	Cum.	6	E	3	Cum.	4	—	—	SW 1	Calm	100	Fine a. Very close and muggy 2p. < in S. 9p.
6	Cum.	7	S	1	Cum.	8	—	—	Calm	E 1	85	☉ ⁰ (mist) on swamp, ☉ in ESE. 7a. Fine p.
7	Cum.	8	E	3	Cum.	1	—	—	SW 1	E 1	100	☉ n. ☉ ⁰ (mist) on N. hills 7a. Fine, with ∞ p. < in S. 9p.
8	Cum.	8	E	2	Cum.	6	E	2	E 1	Calm	120	☉ in S. a. Very dark, with T, in SW. 10a. ☉ ² overhead 11a. < 9p.
9	Cum.	9	SE	1	Nim.	10	—	—	E 1	Calm	100	☉ a. T in S. noon, then ☉ ² . Dull and muggy p., with ☉ till 6p.
10	Cum.	6	E	3	—	8	—	—	ENE 2	Calm	155	☉ ² before 7a. Very fine 2p.
11	Cum.-s.	8	E	2	Cum. Nim.	9	SE	2	E 2	Calm	180	Very fine a. ☉ ² to N. p.
12	Cum.	8	ESE	3	Cum.	4	—	—	ESE 3	Calm	175	☉ before 7a. Day very fine. < in S. 9p.
13	Cum.	7	E	3	Cum.	5	—	—	SSW 1	Calm	120	Fine a. ☉ shower 1p. T in W. 2p.
14	Cum.	4	E	1	Cum.	10	—	—	ESE 2	Calm	140	☉ ⁰ (mist) on N. hills a. Very fine here 9a. T in W., < in S. p.
15	Cum.	7	E	2	Cum.	9	—	—	Calm	Calm	135	☉ ⁰ (mist) on swamp 7a. Day fine, with ∞. [< in W. 9p.
16	Cum.	8	E	2	Cum.	6	E	1	WSW 1	Calm	175	Fine, with ∞ ² a. ☉ ² from E. 10a.—11a., then ☉ in E., passing to W.
17	Cum.	6	E	2	Cum.	7	S	1	W 1	Calm	80	☉ ⁰ (mist) on N. hills and swamp a. Very fine p. ☉ in ESE. 9p.
18	Cum.	8	ESE	1	Cum.	4	—	—	W 1	ENE 1	150	☉ ⁰ (mist) on N. hills a. Fine day, with ∞ ² p.
19	Cum.	8	E	3	Cum.	3	—	—	ESE 3	ENE 1	100	Fine day, with ∞ ² .
20	Cum.	9	E	1	Cum.	4	—	—	SW 1	ENE 1	280	Very dull 7a., with ☉ T in ESE. Day fine, with ∞.
21	Cum.	7	E	2	Cum.	3	—	—	W 1	Calm	225	☉ ⁰ (mist) on N. hills a. Day fine, with ∞.
22	Cum.	8	E	2	Cum.	5	—	—	Calm	Calm	200	Fine day, with ∞ ² . ☉ showers in S. 2p.
23	Cum.	6	E	1	Cum.	2	—	—	E 1	Calm	255	Fine day, with ∞.
24	Cum.	5	E	2	Cum. Nim.	10	—	—	ESE 2	Calm	190	Fine, with ∞ 7a. Dull in E. 9a. Squall, with ☉ 1p. ☉ 9p.
25	Cum.	9	E	2	Cum. Nim.	10	—	—	SE 2	Calm	100	Squally ☉ n. Very dull 2p., ☉ in S. ☉ ² showers p. < in S.
26	Cum.	8	E	2	Cum.	1	—	—	ESE 3	Calm	240	☉ ² n. ☉ ⁰ (mist) on hills 7a. Fine a. Very fine p.
27	Cum.	9	E	1	Cum.	1	—	—	W 1	Calm	125	☉ ⁰ (mist) on swamp and hills a. Very muggy 2p. < in S. 9p.
28	Cum.	6	SE	1	Cum.	1	—	—	W 1	ENE 1	100	☉ ⁰ (mist) on swamp 7a. Very ugly, with ☉ in S. 2p. < in W. 9p.
29	Cum.	4	E	3	Cum.	7	—	—	ESE 2	Calm	70	☉ ⁰ (mist) on swamp 7a. Day fine, with ∞. T in SW. p.
30	Cum.	4	E	1	Cum.	2	—	—	W 1	Calm	160	☉ ⁰ (mist) on swamp 7a. Day very fine.
31	Cum.	6	E	1	Cum.	6	—	—	W 1	Calm	150	Very fine a.
Mean	—	7°0	—	2°0	—	5°3	—	—	1°5	0°3	155°1	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

SEPTEMBER 1888.

Day.	BAROMETER.				TEMPERATURE.													SUN-SHINE.	RAIN-FALL.
	At 32° Faht. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.		
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.			
	ins.	ins.	ins.	ins.														hours.	ins.
1	29°967	29°959	29°894	29°898	78°0	75°5	83°0	77°0	85°0	75°0	79°5	76°0	74°0	87°0	151°0	72°0	82°0	9°8	·49
2	°912	°904	°875	°924	76°0	74°4	78°2	75°0	80°0	75°0	77°0	74°5	73°0	82°5	138°0	71°0	82°0	1°8	·34
3	°965	°962	°882	°930	78°0	75°5	82°5	78°5	86°5	80°0	80°0	76°0	75°0	87°0	144°5	73°0	82°0	9°3	·15
4	°952	°949	°871	°952	78°5	75°5	82°0	78°0	86°0	79°0	80°0	77°2	76°0	90°5	156°0	70°0	82°0	3°3	—
5	°929	°920	°874	°900	77°0	74°6	81°0	77°0	82°5	76°0	77°0	73°5	72°0	90°5	147°0	70°0	82°0	6°7	·01
6	29°951	29°958	°930	°976	80°0	77°0	83°0	78°6	84°0	76°0	78°5	75°0	74°0	88°0	147°0	71°0	82°0	7°2	—
7	30°005	30°020	°952	°998	78°0	76°0	83°0	79°0	86°0	79°0	79°0	75°0	74°5	87°0	151°0	71°5	82°0	8°7	·08
8	29°985	30°004	°977	°973	76°2	75°0	82°6	78°0	82°0	76°3	78°0	75°0	73°5	87°5	147°0	70°0	82°0	6°7	·38
9	°979	29°970	°938	°933	77°6	75°0	80°2	77°0	82°0	76°5	77°0	74°5	72°5	86°5	148°0	71°0	82°1	3°7	—
10	°992	29°985	°944	29°970	76°4	74°0	79°5	76°0	83°8	78°0	79°0	74°0	71°5	86°0	140°0	68°5	82°1	3°5	·25
11	29°985	30°027	°976	30°012	76°0	74°0	82°5	78°0	82°9	77°8	79°0	76°0	72°0	90°0	154°5	69°0	82°0	6°0	·02
12	30°052	°054	°987	°011	76°0	74°5	76°8	75°0	79°8	76°0	74°5	74°0	74°5	83°0	128°0	73°0	82°0	0°8	·36
13	°039	°032	29°962	°011	75°0	73°5	80°0	77°0	82°9	77°2	74°0	73°0	72°0	83°5	147°0	70°5	82°0	5°0	1°87
14	°048	°068	30°008	°055	74°0	73°0	80°2	77°0	82°5	76°7	78°0	75°5	72°0	86°0	153°0	69°0	81°2	7°0	—
15	°083	°068	30°007	°039	76°0	73°8	80°0	77°0	84°0	78°0	79°0	74°0	72°5	87°0	145°0	69°0	81°4	7°0	—
16	°056	°079	29°986	°023	76°0	74°6	77°5	76°0	82°0	79°0	78°0	75°0	74°0	86°0	147°0	72°0	81°9	6°0	·06
17	°013	°032	30°000	°026	76°0	75°0	83°0	79°0	82°0	76°5	77°5	75°0	72°5	87°0	139°0	70°0	81°8	5°8	·13
18	°039	°039	30°035	°035	76°5	75°0	79°8	77°0	72°8	69°0	70°0	67°0	70°0	85°0	150°0	69°0	82°0	4°7	—
19	°023	°065	29°991	30°053	70°5	68°8	78°2	73°8	82°0	77°0	77°0	74°0	68°0	83°0	128°5	65°0	81°7	4°7	·06
20	30°037	30°023	°958	29°988	75°4	73°0	80°0	77°0	82°8	78°0	75°0	74°5	73°5	85°0	152°0	71°5	81°4	5°3	·03
21	29°959	29°987	°941	°960	78°0	77°0	80°0	77°0	76°0	75°0	74°5	73°0	74°0	83°5	143°0	72°5	81°5	4°3	4°20
22	°979	°985	°938	°973	76°0	74°0	76°5	74°0	79°0	77°0	77°0	74°2	73°5	85°0	151°0	71°0	80°9	2°3	·20
23	°983	°995	°919	°956	75°8	74°0	80°0	77°2	87°5	79°0	82°0	77°5	74°5	87°5	143°0	69°5	81°0	10°5	—
24	°976	°982	°924	°986	79°0	76°5	81°0	77°2	87°0	79°2	82°0	78°0	76°0	87°0	146°0	71°5	81°0	9°7	—
25	°959	°982	°904	29°963	78°0	76°0	85°0	80°0	85°0	79°0	82°5	78°5	76°0	86°0	145°0	72°5	81°4	10°5	—
26	29°983	29°962	29°952	30°016	75°2	74°2	84°0	78°0	87°0	79°0	78°5	77°0	74°5	90°0	143°5	71°0	82°0	7°7	—
27	30°058	30°072	30°004	°056	77°0	75°5	86°0	81°0	86°0	78°5	79°5	76°0	75°0	86°5	141°5	72°0	82°0	9°7	·01
28	°061	°068	30°002	°055	76°0	75°0	82°0	80°0	86°2	80°0	79°5	74°0	74°5	86°5	143°0	72°5	82°0	8°3	—
29	30°073	30°073	29°978	30°011	75°5	74°0	76°0	75°5	87°0	81°0	77°0	76°5	71°5	89°0	144°0	69°0	82°0	9°7	1°20
30	29°980	29°945	29°938	29°936	76°0	74°0	86°0	80°0	88°5	84°0	86°0	84°0	72°5	89°0	142°0	71°0	82°0	7°0	—
Mean	30°001	30°006	29°952	29°987	76°5	74°6	81°0	77°4	83°4	77°5	78°2	75°2	73°3	86°6	145°2	70°6	81°8	192°7	9°84

Day.	LOWER CLOUDS.								WIND.				REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.		
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.			
1	Cum.	8	NE	3	Cum. Nim.	7	N	2	W	1	Calm	0	miles. ☉ n. ☼ (mist) on swamp and hills a. Day fine. Ugly in N. 9p.
2	Cum.	9	SE	2	Cum.	6	—	—	E	2	E	1	☼ (mist) on hills a. ☼ in the W. 9p.
3	Cum.	4	—	0	Cum.	9	—	—	ESE	2	E	2	☼ (mist) on hills a. Day fine.
4	Cum.	6	SSE	3	Nim.	10	—	—	ESE	1	Calm	0	☼ (mist) on hills a. Dull at 2p. ☼ ² in SW. 9p.
5	Cum.	6	S	2	Cum.	6	—	—	E	1	Calm	0	☼ ² in SE. noon, then ☼ in W. ☼ in S. 2p.—4p. ☼ from S. [2.20p.]
6	Cum.	5	SE	2	Cum.	4	—	—	ESE	2	Calm	0	☼ (mist) a. ☼ ² in SE. noon, and overhead 2p.—3.30p. Fine 9p.
7	Cum.	4	SE	2	Cum.	4	—	—	SSE	1	NE	1	☼ (mist) on swamp and hills a. Day fine, with ∞. ☼ in S. 3p.—4p.
8	Cum.	5	E	3	Cum.	3	—	—	W	1	Calm	0	☼ (mist) on swamp and hills 7a. ∞ ga. ☼ 10a. Fine 9p.
9	Cum.	5	E	2	Cum.	4	—	—	SSW	1	Calm	0	☼ (mist) on swamp and hills a. ∞ p. ☼ in S. 9p.
10	Cum.	9	E	2	Cum.	8	E	2	W	1	ENE	1	☼ (mist) on swamp 7a. Close and muggy 2p. ☼ in E. 9p.
11	Cum.	4	ENE	2	Cum.	4	—	—	SSW	0.5	E	1	☼ (mist) on swamp 7a. ∞ ga. Dull 2p. Distant ☼ in SW. p.
12	Nim.	10	—	3	Nim.	10	—	—	E	1	Calm	0	☼ in W. a. ☼ ga. ☼ ² in S. 2p. ☼ ² overhead 6p. ☼ in NW. 9p.
13	Cum.	6	E	1	Cum.	10	—	—	E	1	Calm	0	☼ ² n. ☼ (mist) a. Distant ☼ in S. 2p.—3p. Squall from SE. 4p.
14	Cum.-s.	5	E	1	—	10	—	—	E	1	Calm	0	☼ (mist) on swamp and hills a. Distant ☼ p. ☼ in W. 9p.
15	Cum.-s.	5	SE	1	Cum.	6	SbyE	1	W	1	ENE	1	☼ (mist) on swamp a. Very fine 9a. ☼ in SW. 2p. ☼ in SE. [S. 9p.]
16	Cum. Nim.	10	E	1	Cum.	3	—	—	Calm	0	E	0.5	☼ n. and ga. Day muggy, clouds low. ∞ 9p. ☼ in SE.
17	Cum.	9	E	2	Cum.	10	S	2	W	1	E	0.5	☼ (mist) on swamp and hills a. Day dull. ∞ 9p. ☼ in SSW.
18	Cum.	6	SE	1	Cum.	10	S	2	SSW	1	W	1	☼ (mist) a. Sudden ☼ ² overhead 11a., then ☼ from SE. ☼ 2p.
19	Cum.-s.	3	—	0	Cum.	7	S	1	WbyS	1	E	0.5	☼ (mist) on swamp 7a. Day fine, with ∞. ☼ in ESE. 9p.
20	Cum.	4	—	1	Nim.	10	—	—	WbyS	1	E	1	☼ (mist) on swamp 7a. Fine a. ☼ in S. 2p. ☼ 9p.
21	Cum.	6	SE	1	Cum.	3	—	—	Calm	0	Calm	0	☼ ² n. ☼ (mist) 7a. ☼ ⁰ ☼ ² p., passing SE. to NW. Very fine 9p.
22	Cum.	10	E	2	Cum.	9	E	3	E	1	SSE	1	☼ (mist) a. Day very dull. ☼ ☼ 2p. [☼ in S.
23	Cum.	4	E	1	Cum.	4	—	—	ESE	2	SSW	2	Very fine day.
24	Cum.	6	SSE	4	Cum.	8	S	4	ESE	2	ESE	2	☼ (mist) on swamp and hills a. Very fine 2p. Ugly 9p.
25	Cum.	6	E	1	Cum.	8	—	—	ESE	2	S	2	∞ ga. ☼ in SW. 2p. ☼ Day fine.
26	Cum.	6	W	1	Cum.	7	SW	1	Calm	0	SE	2	☼ (mist) on swamp 7a. Day fine, with ∞. ☼ in S., distant ☼ 2p.
27	Cum.	5	SE	2	Cum.	3	—	—	SE	1	Calm	0	☼ (mist) a. Day fine, with ∞. Distant ☼ in SW. 2p.
28	Cum.	7	ESE	3	Cum.	4	—	—	Calm	0	E	1	☼ (mist) on swamp 7a. Day fine, with ∞.
29	Cum.	6	E	1	Cum.	2	—	—	NNE	1	Calm	0	☼ (mist) on swamp and hills. ☼ ² showers. Fine p. ☼ in W. 9p.
30	Cum.	6	E	2	Cum.	5	—	—	SE	1	E	1	☼ (mist) on swamp 7a. Day fine.
Mean	—	6.2	—	1.7	—	6.5	—	—	1.1	0.7	134.6		

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

OCTOBER 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN-SHINE.	RAIN-FALL.
	At 32° Fah. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
1	ins. 29°966	ins. 29°942	ins. 29°929	ins. 29°936	74°5	72°0	81°0	77°5	84°0	77°0	77°5	75°5	72°0	86°5	146°0	69°5	82°0	hours. 8°7	ins. —	
2	°921	°915	°876	°918	72°5	72°0	77°0	74°5	85°0	74°5	76°0	74°5	71°5	87°5	145°5	69°5	82°0	5°7	—	
3	°966	°968	°948	°977	80°0	77°0	81°0	77°5	78°0	76°5	78°0	74°0	74°0	83°0	138°0	73°0	82°0	2°0	°50	
4	°973	29°962	°962	29°958	77°0	75°5	82°5	77°4	83°5	76°8	78°0	76°5	75°0	87°0	148°0	72°0	82°0	3°7	°06	
5	29°964	30°005	°991	30°027	76°5	74°5	82°0	76°5	85°0	77°0	81°0	77°0	76°0	87°0	146°0	73°5	82°0	7°5	—	
6	30°026	30°044	°939	29°944	75°0	74°0	83°5	77°5	86°0	79°0	80°0	75°5	73°5	87°0	146°5	69°5	82°0	9°5	—	
7	30°005	29°982	°943	°982	76°0	74°0	84°0	78°5	90°5	79°2	79°0	75°5	71°5	91°5	146°5	71°0	82°0	9°8	—	
8	29°995	30°022	°943	29°956	74°5	73°5	84°0	78°0	91°5	79°0	82°0	76°5	72°5	92°5	145°5	70°0	82°0	10°0	—	
9	30°026	°062	°999	30°016	79°0	76°5	83°0	79°0	87°0	79°0	79°0	77°0	77°0	90°0	146°0	73°0	82°0	6°2	—	
10	°027	°080	°997	°018	75°0	74°0	85°0	79°5	86°0	79°0	79°0	75°0	74°0	86°0	146°0	71°0	82°4	9°8	—	
11	°055	°038	°961	30°003	77°0	76°5	83°0	79°0	86°0	77°0	80°0	77°4	74°0	86°0	140°0	71°0	82°6	9°8	°07	
12	°060	°051	29°948	29°997	76°0	75°5	81°0	79°0	87°0	78°0	79°0	75°0	75°0	87°0	147°0	72°0	82°8	7°5	°34	
13	30°033	°058	30°015	30°023	76°0	74°5	84°0	80°0	85°0	77°0	79°0	74°0	74°0	87°0	145°5	71°0	82°8	8°0	°01	
14	29°995	30°009	29°940	29°962	76°0	74°0	84°5	78°5	84°5	78°0	76°5	75°5	74°5	87°0	145°0	71°0	82°8	7°3	—	
15	29°947	29°966	°902	29°973	75°5	74°5	84°0	80°0	86°0	78°5	79°0	75°0	73°5	89°5	147°0	70°5	82°8	7°2	°18	
16	30°009	30°026	29°952	30°015	75°0	74°0	85°5	80°5	86°0	78°5	78°0	75°0	72°5	87°5	145°0	70°0	82°8	9°7	°03	
17	°052	°062	30°011	°028	77°0	75°0	84°5	79°0	86°5	78°0	78°5	75°5	74°5	88°5	150°0	70°0	82°8	10°0	°19	
18	°031	°056	30°020	30°043	73°5	72°5	84°0	79°0	85°5	76°0	79°0	75°0	72°5	87°0	150°0	69°5	82°8	8°3	°25	
19	30°010	30°020	29°960	29°980	75°0	74°0	82°0	78°0	85°5	79°0	79°0	76°0	74°0	88°0	140°0	70°0	82°9	8°2	°25	
20	29°980	29°990	°913	°959	78°0	76°0	84°0	80°0	88°0	78°0	72°0	70°0	72°0	89°0	148°0	72°0	82°3	5°0	°75	
21	°957	29°930	°927	29°952	72°3	70°5	82°0	78°4	88°3	78°6	77°5	73°5	70°0	90°0	142°0	70°5	82°3	3°0	—	
22	29°988	30°005	29°934	30°042	71°8	70°2	81°0	77°5	84°0	78°2	78°0	75°0	70°0	85°0	145°0	68°0	82°2	9°5	—	
23	30°052	°111	30°048	°074	73°8	73°0	82°0	78°5	82°0	77°0	79°0	75°0	73°0	90°0	146°0	70°0	82°2	2°3	°40	
24	°084	°107	°053	°062	75°0	73°2	80°0	79°0	86°7	82°7	79°0	78°0	72°5	85°2	146°0	69°0	82°0	7°2	°70	
25	°067	°076	°005	°030	71°0	70°0	78°5	76°0	77°3	76°0	75°0	74°0	70°0	83°0	141°0	66°3	82°0	1°7	°10	
26	°055	°082	°026	°056	72°0	71°5	83°5	79°0	83°0	77°0	77°0	74°0	71°5	85°2	146°0	67°0	82°0	3°3	°30	
27	°066	°093	°021	°045	73°0	72°0	76°0	74°0	86°0	78°0	76°0	73°0	70°0	89°0	152°0	67°0	81°8	3°8	°09	
28	°065	°094	30°022	°088	74°0	72°5	85°0	78°0	83°0	82°0	75°0	75°0	71°0	87°0	149°0	67°0	81°8	7°3	°02	
29	30°040	°059	29°980	30°015	72°5	72°0	85°0	79°0	85°0	77°0	77°0	76°0	70°0	90°0	149°0	67°5	81°8	8°0	°05	
30	29°968	°009	°942	29°980	72°0	71°5	78°0	75°0	83°0	77°0	75°0	74°0	72°0	85°0	149°0	69°0	81°5	4°8	°38	
31	29°963	30°002	29°964	29°977	75°0	72°5	79°0	76°0	79°0	73°5	74°0	73°0	70°0	86°0	145°0	68°0	81°4	3°8	°28	
Mean	30°011	30°027	29°970	30°001	74°9	73°6	82°1	78°0	85°0	77°9	77°8	75°0	72°7	87°4	145°9	69°9	82°2	208°4	4°95	

Day.	LOWER CLOUDS.								WIND.			REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.	
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.		
1	Cum.	5	E	2	Cum.	2	—	—	E 2	ESE 1	miles.	100 (mist) on swamp 7a. Day fine. ∞ p.
2	Cum. Nim.	9	E	2	Cum.	4	—	—	S 1	Calm 0	159	Day dull and muggy. T in E. 2p.
3	Cum.	9	E	2	Cum.	10	E	1	ESE 2	ESE 2	200	
4	Cum.	5	E	2	Cum.	7	—	—	ESE 2	Calm 0	226	(mist) on swamp 7a. Fine, with ∞ 9a. Muggy ● showers 2p.
5	Cum.	5	E	2	Cum.	4	—	—	ESE 2	ESE 2	175	Day fine, with ∞.
6	Cum.	5	E	1	Cum.	10	E	1	ESE 1	ESE 1	225	Day fine, with ∞.
7	Cum.	7	SE	1	Cum.	8	—	—	Calm 0	Calm 0	80	Fine day.
8	Cum.	3	—	—	Cum.	7	S	2	SE 1	S 2	75	Very fine day. ∞ 9p.
9	Cum.	7	SE	3	Cum.	4	—	—	ESE 2	SE 1	150	Fine, with ∞ a. T in S. 2p. ∞ 9p.
10	Cum.	6	E	1	Cum.	9	S	2	SSE 1	S 1	150	∞ a. Day very fine.
11	Cum.	7	ESE	2	Cum.	4	—	—	ESE 2	Calm 0	205	● showers a. Day very fine. ∞ 9p.
12	Cum.	7	E	1	Cum.	4	—	—	S 1	Calm 0	150	(mist) on hills. Very muggy a. Very fine 2p.
13	Cum.	8	E	2	Cum.	6	E	1	SW 1	ESE 1	100	(mist) ∞ a. Very fine 2p. < in E. 9p.
14	Cum.	7	E	1	Cum. Nim.	9	E	2	SW 1	E 1	200	(mist) 7a. ∞ 9a. K in S. 2p. ● showers p. < in E. 9p.
15	Cum.	5	SE	2	Cum.	4	—	—	SW 0.5	SE 1	140	(mist) on swamp and hills a. Day fine. < in S. 9p.
16	Cum.	5	E	2	Cum.	3	—	—	S 1	E 1	75	(mist) on N. hills a. Day very fine. T in SSW. p. < in W. 9p.
17	Cum.	5	E	1	Cum.	7	E	2	E 1	—	80	
18	Cum.	8	E	2	Cum.	9	—	—	ESE 2	ESE 2	20	
19	—	—	—	—	—	—	—	—	W 1	—	100	
20	—	—	—	—	—	—	—	—	W 1	E 1	100	K 0 9p.
21	—	—	—	—	—	—	—	—	W 2	E 2	150	
22	—	—	—	—	—	—	—	—	W 1	Calm 0	150	
23	—	—	—	—	—	—	—	—	W 2	Calm 0	155	
24	—	—	—	—	—	—	—	—	W 1	—	125	
25	—	—	—	—	—	—	—	—	W 2	—	150	
26	—	—	—	—	—	—	—	—	W 1	—	150	
27	—	—	—	—	—	—	—	—	W 1	—	75	
28	—	—	—	—	—	—	—	—	W 1	—	105	
29	—	—	—	—	—	—	—	—	W 1	—	155	
30	—	—	—	—	—	—	—	—	N 1	—	100	
31	—	—	—	—	—	—	—	—	W 1	—	125	
Mean	—	—	—	—	—	—	—	—	1°3	—	133°9	

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

NOVEMBER 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN-SHINE.	RAIN-FALL.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
	ins.	ins.	ins.	ins.														hours.	ins.	
1	30°012	30°054	29°982	30°030	72°0	74°5	79°0	74°0	87°0	80°0	76°0	74°0	71°0	90°0	149°0	69°0	81°5	8°2	°33	
2	29°996	30°044	29°962	29°962	72°0	74°5	82°0	79°0	81°0	78°0	76°0	75°0	71°0	87°0	153°0	70°0	81°0	6°5	°30	
3	°924	29°955	°888	°898	74°0	73°0	77°0	76°5	83°0	77°0	78°0	75°0	72°5	85°5	145°5	70°0	81°0	3°7	°80	
4	°895	°927	°873	°903	78°0	76°0	79°0	77°0	82°0	79°0	75°0	75°0	71°0	82°0	142°0	72°0	81°0	2°0	°17	
5	29°960	29°997	°953	°980	71°5	74°0	80°0	78°0	86°0	83°0	73°0	72°5	70°0	88°0	145°0	69°0	80°5	4°2	°28	
6	30°018	30°033	°957	29°974	74°0	74°0	81°0	80°0	86°0	85°0	77°5	77°0	73°0	86°0	154°0	69°0	80°5	9°0	°15	
7	29°966	°009	29°961	30°002	75°0	74°5	79°5	78°5	84°0	84°0	74°0	73°5	73°5	84°0	149°0	71°0	80°8	4°0	°04	
8	30°009	°068	30°004	°950	72°5	72°5	80°0	77°5	84°0	77°0	72°5	74°5	72°0	84°5	142°0	71°0	81°0	2°8	°12	
9	°034	°096	30°030	30°065	70°0	70°0	79°0	76°5	84°0	82°0	75°0	75°0	69°0	86°0	148°0	69°0	81°0	5°8	°03	
10	30°048	°065	29°995	29°998	70°5	70°0	81°0	80°0	82°5	82°0	77°0	77°0	68°5	87°0	153°0	66°0	80°5	8°0	—	
11	29°997	°015	°950	29°978	73°0	72°0	80°5	80°0	89°0	88°0	76°0	76°0	69°0	89°0	151°0	67°0	80°2	9°3	—	
12	30°006	°062	29°996	30°038	71°0	74°0	80°2	76°2	86°0	85°5	77°0	76°0	70°0	88°0	144°0	68°0	80°2	8°5	—	
13	°056	°109	30°021	30°057	72°0	74°0	83°0	79°0	88°0	80°0	78°0	75°0	71°0	89°0	154°0	68°0	80°2	6°7	—	
14	°072	°125	°047	29°978	72°0	74°5	81°0	76°0	85°5	80°0	76°0	76°0	71°5	88°0	151°0	69°0	80°5	6°5	—	
15	°006	°066	°026	30°048	71°0	74°0	79°0	76°5	83°0	76°5	77°0	75°0	71°0	85°0	145°0	68°0	80°8	7°2	°32	
16	°048	°098	°022	°020	71°0	70°5	78°0	75°0	84°0	78°0	76°0	73°5	70°0	86°5	142°0	68°0	80°8	7°0	—	
17	°030	°062	°010	30°013	71°0	70°5	80°0	76°5	80°5	70°5	71°0	70°0	71°0	84°0	142°0	68°0	80°8	2°8	°90	
18	30°036	30°060	30°009	29°996	73°0	70°5	74°5	72°0	82°0	72°5	75°0	75°0	67°5	84°0	150°0	65°0	80°5	6°0	—	
19	29°972	29°988	29°998	°954	70°0	70°0	79°0	78°0	85°0	80°0	74°0	73°0	68°0	85°0	149°0	64°0	79°1	3°0	1°10	
20	°977	30°007	°938	°955	74°0	74°0	79°0	76°0	87°0	76°0	76°0	73°0	69°0	88°0	156°0	68°5	79°6	6°0	°65	
21	°996	30°011	°929	°962	70°0	70°0	80°0	76°0	86°0	78°0	75°0	70°0	70°0	87°0	149°0	63°5	79°8	9°0	°45	
22	°926	29°965	°914	°940	76°0	69°0	78°0	78°0	79°5	79°5	76°0	75°0	69°0	86°0	140°0	66°0	79°8	6°0	—	
23	°959	30°000	°930	°970	73°0	74°5	77°6	75°5	82°5	77°5	76°5	75°0	70°0	85°0	145°0	67°0	79°8	5°8	—	
24	°970	30°040	°940	°980	73°0	73°0	77°6	75°5	82°5	77°5	76°5	75°0	70°0	85°0	149°0	67°0	79°4	6°5	—	
25	°976	29°954	°855	°874	73°0	73°0	80°0	70°5	83°0	82°5	74°0	73°0	71°0	89°0	145°0	68°0	79°0	3°5	°90	
26	°884	29°972	°870	°992	72°8	74°0	75°5	74°5	78°0	77°5	75°0	74°0	70°0	82°0	139°0	69°0	79°0	4°0	—	
27	29°994	30°038	29°966	29°991	69°0	68°0	77°5	73°0	84°5	77°0	78°0	77°0	68°0	85°0	139°0	65°0	79°5	6°2	—	
28	30°021	°075	30°007	30°045	77°0	75°0	81°0	77°0	85°0	79°0	76°0	75°0	70°5	86°0	146°0	66°0	79°5	2°5	—	
29	°049	°089	°002	°046	73°5	73°0	79°0	77°0	90°0	82°0	74°0	73°0	72°0	90°0	145°0	70°5	79°5	3°8	—	
30	30°042	30°086	30°034	30°030	71°0	70°5	77°0	76°0	88°0	77°0	76°5	75°0	70°0	88°5	148°0	69°0	80°0	4°0	°75	
Mean	29°996	30°034	29°967	29°991	72°3	71°6	79°2	76°4	84°3	79°5	75°6	74°3	70°3	86°3	147°0	67°8	80°2	168°5	7°20	

Day.	LOWER CLOUDS.								WIND.			REMARKS.
	9 A.M.				9 P.M.				Direction and Force.		Vel.	
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.		
1	—	—	—	—	—	—	—	—	W	1	—	miles.
2	—	—	—	—	—	—	—	—	W	1	—	75
3	Nim.	8	—	—	—	—	—	—	W	1	—	67
4	Cum. Nim.	8	—	—	—	—	—	—	W	2	Calm 0	159
5	Cum.	3	—	—	—	—	—	—	W	1	—	104
6	Cum.	3	—	—	—	—	—	—	ENE	1	—	75
7	Cum.	6	—	—	—	—	—	—	SW	1	Calm 0	125
8	Cum. Nim.	5	—	—	—	—	—	—	SW	1	—	75
9	Cum.	3	—	—	—	—	—	—	W	1	E 1	105
10	Cum.	2	—	—	—	—	—	—	W	1	E 1	100
11	Cum.	3	—	—	—	—	—	—	E	1	—	125
12	Cum.	2	—	—	—	—	—	—	W	1	—	75
13	Cum.	3	—	—	—	—	—	—	W	1	—	100
14	Cum.	5	—	—	—	—	—	—	W	1	—	105
15	Cum.	3	—	—	—	—	—	—	W	1	—	50
16	Cum. Nim.	5	—	—	—	—	—	—	W	1	W 1	150
17	Cum.	4	—	—	—	—	—	—	W	1	—	100
18	Cum. Nim.	8	—	—	—	—	—	—	W	2	—	125
19	Cum.	4	—	—	—	—	—	—	W	3	—	110
20	—	—	—	—	—	—	—	—	W	1	Calm 0	100
21	—	—	—	—	—	—	—	—	W	1	—	75
22	—	—	—	—	—	—	—	—	E	3	E 2	50
23	—	—	—	—	—	—	—	—	—	1	—	75
24	—	—	—	—	—	—	—	—	—	1	—	105
25	Cum.	4	—	—	—	—	—	—	W	1	Calm 0	130
26	Cum. Nim.	3	—	—	—	—	—	—	NW	1	W 2	95
27	Cum.	1	—	—	—	—	—	—	W	1	—	100
28	Cum.	6	—	—	—	—	—	—	E	1	—	150
29	Cum.	4	—	—	—	—	—	—	W	1	—	105
30	Cum.	4	—	—	Cum.	1	—	—	W	1	N 1	100
Mean	—	—	—	—	—	—	—	—	1°2	—	—	99°5

SANCHEZ, SAN DOMINGO.—Long. 69° 37' W. Lat. 19° 13' N. Height above Mean Sea Level, 50 feet.
Thermometers, 4 feet above ground. Rain-gauge, 1 foot above ground.

DECEMBER 1888.

Day.	BAROMETER.				TEMPERATURE.														SUN-SHINE.	RAIN-FALL.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.			
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.				
1	ins.	ins.	ins.	ins.	72°	74°	78°	77°	83°	77°	78°	76°	71°	85°	137°	68°	80°	hours.	ins.	
2	30°092	30°087	30°010	30°122	72°	74°	78°	77°	83°	77°	78°	76°	71°	85°	137°	68°	80°	6°	—	
3	°088	°123	°045	°090	73°	73°	79°	78°	87°	77°	78°	77°	71°	87°	139°	69°	80°	9°	—	
4	°094	°126	°070	°105	72°	74°	79°	76°	82°	77°	78°	73°	71°	84°	150°	68°	80°	6°	—	
5	30°056	°094	30°017	30°060	74°	73°	80°	77°	84°	77°	77°	75°	72°	85°	138°	69°	80°	9°	—	
6	29°997	°040	29°925	29°960	71°	70°	78°	76°	83°	77°	80°	76°	71°	86°	138°	68°	80°	5°	—	
7	29°991	°047	29°980	30°020	72°	70°	78°	75°	76°	75°	74°	73°	73°	84°	139°	66°	80°	0°	79	
8	30°074	°085	30°034	°134	70°	69°	71°	70°	72°	70°	69°	68°	68°	72°	81°	68°	78°	0°	400	
9	°106	°125	°051	°072	68°	68°	70°	70°	79°	74°	74°	70°	66°	87°	141°	64°	78°	2°	—	
10	°049	°080	30°012	30°013	71°	70°	78°	75°	82°	70°	76°	74°	68°	85°	139°	65°	78°	10°	—	
11	30°000	30°037	29°934	29°948	71°	71°	79°	76°	83°	79°	78°	76°	71°	84°	151°	65°	78°	8°	—	
12	29°938	29°979	29°931	30°021	78°	76°	82°	78°	84°	80°	78°	76°	76°	86°	137°	68°	78°	7°	—	
13	30°004	30°074	30°003	°050	74°	73°	76°	75°	82°	79°	74°	74°	73°	86°	136°	69°	79°	2°	°04	
14	°037	°081	29°994	°041	71°	70°	77°	75°	86°	79°	75°	74°	70°	86°	143°	66°	80°	5°	—	
15	°062	°109	30°028	°106	72°	70°	77°	75°	84°	75°	74°	73°	70°	85°	143°	69°	80°	5°	—	
16	°149	°212	°122	°171	71°	70°	74°	72°	76°	74°	74°	73°	71°	79°	117°	70°	79°	0°	80	
17	°175	°222	°128	°123	70°	70°	74°	73°	77°	75°	73°	72°	69°	80°	133°	68°	80°	0°	130	
18	°082	°123	°039	°069	69°	69°	77°	76°	82°	75°	74°	72°	66°	84°	135°	66°	79°	9°	—	
19	°075	°135	°064	°064	68°	67°	73°	73°	85°	75°	76°	75°	66°	85°	135°	68°	79°	9°	—	
20	°073	°131	30°065	°078	70°	69°	78°	75°	80°	75°	72°	72°	69°	86°	146°	66°	79°	5°	—	
21	°048	°084	29°990	°030	70°	69°	74°	73°	83°	75°	76°	74°	68°	84°	143°	66°	79°	5°	—	
22	°031	°108	30°041	°094	71°	70°	75°	74°	74°	70°	72°	70°	70°	79°	136°	68°	79°	5°	—	
23	°102	°150	°082	°087	69°	68°	69°	67°	72°	70°	69°	69°	66°	87°	140°	66°	78°	0°	26	
24	°092	°094	°023	°068	70°	69°	72°	71°	73°	71°	72°	71°	65°	73°	99°	66°	78°	0°	70	
25	°102	°114	°023	°080	70°	69°	70°	69°	76°	74°	73°	72°	66°	80°	132°	66°	77°	0°	30	
26	°057	°073	30°001	°078	71°	69°	72°	70°	78°	75°	73°	72°	66°	82°	137°	66°	77°	0°	50	
27	°044	°057	29°973	°004	71°	70°	74°	73°	78°	75°	75°	73°	66°	82°	143°	66°	77°	1°	22	
28	°019	°068	29°990	°065	72°	71°	77°	74°	84°	77°	77°	75°	73°	84°	143°	68°	77°	0°	—	
29	°058	°136	30°077	°118	72°	71°	74°	73°	83°	76°	76°	74°	71°	84°	133°	69°	78°	6°	—	
30	°147	°129	°099	°123	70°	70°	74°	73°	84°	76°	74°	72°	69°	85°	142°	66°	78°	8°	—	
31	°228	°191	°153	°173	74°	73°	78°	74°	79°	77°	74°	72°	73°	84°	143°	69°	78°	3°	26	
Mean	30°071	30°107	30°033	30°073	71°	70°	76°	74°	80°	75°	74°	73°	69°	83°	134°	67°	78°	140°	9°	

Day.	LOWER CLOUDS.								WIND.			REMARKS.			
	9 A.M.				9 P.M.				Direction and Force.		Vel.				
	Form.	Amt.	Dirn.	Vel.	Form.	Amt.	Dirn.	Vel.	9 a.m.	9 p.m.					
1	Cum.	2	—	—	—	—	—	—	W	1	Calm	0	miles. 50	● ² n. and all day, with squally  from N. p.	
2	Cum.-s.	3	—	—	—	—	—	—	W	1	Calm	0	125		
3	Cum.	3	—	—	—	—	—	—	W	1	—	—	75		
4	Cum.	2	—	—	—	—	—	—	W	1	—	—	50		
5	Cum.-s.	5	—	—	Cum.	5	—	—	SE	1	S	3	155		
6	Cum. Nim.	10	—	—	Cum. Nim.	10	—	—	NW	1	N	1	200		
7	Nim.	10	—	—	Nim.	10	—	—	N	1	N	2	75		
8	Cum. Nim.	8	—	—	—	—	—	—	W	1	—	—	155		
9	Cum.	2	—	—	—	—	—	—	W	1	W	2	100		
10	Cum.	1	—	—	Cum.	4	—	—	E	1	W	2	150		
11	Cum.-s.	4	—	—	—	—	—	—	SE	3	—	—	230		
12	Nim.	10	—	—	—	—	—	—	W	1	—	—	75		
13	Cum.	3	—	—	—	—	—	—	W	1	—	—	75		
14	Cum.	6	—	—	—	—	—	—	W	1	N	2	75		
15	Cum. Nim.	10	—	—	—	—	—	—	NE	2	N	1	125		
16	Nim.	10	—	—	—	—	—	—	W	1	—	—	155		
17	Cum.	1	—	—	—	—	—	—	W	1	—	—	50		
18	Cum.	1	—	—	—	—	—	—	E	1	SE	1	125		
19	Cum.	4	—	—	—	—	—	—	W	1	Calm	0	100		
20	—	10	—	—	—	—	—	—	W	1	—	—	75		 (mist) a.
21	Cum.-s.	8	—	—	Cum.	8	—	—	W	2	N	2	155		
22	Nim.	10	—	—	Nim.	10	—	—	W	2	Calm	0	150		
23	Nim.	10	—	—	Nim.	10	—	—	SW	1	N	4	100		
24	Nim.	10	—	—	—	—	—	—	W	1	—	—	230		
25	Cum. Nim.	8	—	—	Cum. Nim.	10	—	—	W	1	Calm	0	100		
26	Cum. Nim.	8	—	—	Cum. Nim.	6	—	—	E	1	E	1	130		
27	Cum. Nim.	8	—	—	—	—	—	—	E	2	—	—	130		
28	Cum.	6	—	—	Cum.	2	—	—	W	1	Calm	0	90		
29	Cum.	3	—	—	—	—	—	—	E	2	Calm	0	80		
30	Cum. Nim.	6	—	—	Nim.	8	—	—	E	2	E	2	100		
31	Cum.	5	—	—	—	—	—	—	W	1	NE	3	75		
Mean	—	6°	—	—	—	—	—	—	1°	3	—	—	114°		

SANCHEZ, SAN DOMINGO.—MONTHLY MEANS AND SUMMARIES.

1886.

Month.	BAROMETER.									TEMPERATURE.					SUN-SHINE.	Vapour Tension at Noon.
	Readings corrected and reduced to 32° Fahr. at the Mean Sea Level.									Shade.		Radiation.		Earth.		
	6 a.m.	8 a.m.	10 a.m.	Noon.	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Min.	Max.	Solar.	Grass.			
Jan. -	ins. 30°031	ins. 30°057	ins. 30°066	ins. 30°039	ins. 29°994	ins. 29°993	ins. 30°007	ins. 30°026	ins. 30°040	66°3	81°7	°	°	°	hours. 216°7	ins. °683
Feb. -	°043	°069	°080	°047	30°003	29°993	°014	°047	°053	67°9	83°5	138°9	—	—	205°6	°715
March	30°070	°094	°093	30°060	30°022	30°014	30°031	30°068	30°076	68°7	84°9	137°7	—	—	250°1	°659
April	29°987	°005	°004	29°984	29°951	29°930	29°949	29°969	29°997	67°0	81°7	—	66°4	—	271°0	°702
May -	30°056	°060	°063	30°052	30°025	30°005	30°008	30°029	30°053	71°4	86°9	—	68°5	—	239°0	°747
June -	°054	°067	°076	°058	°027	°020	°028	°055	°059	72°7	87°4	—	71°0	81°1	260°8	°790
July -	°075	°092	°099	°076	30°048	30°037	°052	°078	°085	72°8	88°1	—	71°1	81°7	296°0	°871
Aug. -	30°016	°034	°042	30°019	29°981	29°984	30°002	30°022	30°028	73°0	88°2	—	71°1	81°3	223°0	°875
Sept.	29°987	30°007	°014	29°984	°943	°941	29°963	29°986	29°999	72°1	89°1	—	70°4	82°0	236°0	°834
Oct. -	29°969	29°995	°000	29°964	°926	°924	29°943	29°975	29°992	71°2	87°8	—	69°3	81°3	266°4	°804
Nov. -	30°041	30°070	°080	30°038	29°999	29°996	30°013	30°040	30°049	69°5	84°8	134°3	67°5	79°5	231°8	°759
Dec. -	30°069	30°102	30°113	30°078	30°030	30°029	30°050	30°076	30°082	66°3	82°4	—	64°1	77°4	205°0	°733
Year	30°033	30°055	30°061	30°033	29°996	29°989	30°005	30°031	30°043	69°9	86°0	—	—	—	2801°4	°764

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Jan. -	ins. 30°123	ins. 30°155	ins. 30°166	ins. 30°125	ins. 30°084	ins. 30°079	ins. 30°100	ins. 30°129	ins. 30°139	65°5	82°0	—	62°8	77°2	hours. 258°0
Feb. -	°188	°220	°230	°189	°144	°139	°161	°190	°196	64°0	81°2	—	60°7	76°2	246°0
March	°088	°120	°124	°095	°045	°031	°055	°087	°102	65°8	83°0	—	63°7	77°6	286°5
April	°075	°101	°108	°084	30°035	30°013	°037	°067	°082	68°4	84°0	—	65°0	80°0	268°5
May -	°026	°042	°044	°027	29°991	29°981	°002	°030	°039	70°4	85°0	—	68°5	80°5	172°0
June	°043	°052	°058	°041	30°010	30°001	°013	°035	°046	72°1	85°3	—	70°6	80°7	194°5
July -	30°102	30°104	°110	30°098	30°070	30°056	30°066	30°094	30°109	71°8	86°8	134°3	70°8	81°5	274°5
Aug. -	29°995	29°997	°004	29°995	29°961	29°952	29°961	29°983	29°996	72°6	88°6	133°7	71°2	82°6	—
Sept.	30°009	30°018	°020	°995	°955	°946	°960	°988	30°006	72°4	90°3	—	70°9	83°5	248°6
Oct. -	29°984	30°004	30°005	°978	°940	°939	°949	°981	29°991	70°4	88°6	140°2	60°1	81°5	284°5
Nov. -	29°966	29°986	29°991	29°963	29°921	29°919	29°931	29°958	29°966	69°5	86°6	—	68°3	81°4	224°6
Dec. -	30°066	30°083	30°101	30°074	30°028	30°025	30°039	30°061	30°073	64°8	83°1	—	62°9	77°8	252°0
Year	30°056	30°074	30°080	30°055	30°015	30°007	30°023	30°050	30°062	69°0	85°4	—	67°0	80°0	—

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DRY-BULB AND WET-BULB THERMOMETERS.

Month.	6 a.m.		8 a.m.		10 a.m.		Noon.		2 p.m.		4 p.m.		6 p.m.		8 p.m.		10 p.m.	
	Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.		Dry. Wet.	
Jan. -	67°7	65°4	70°4	67°7	75°4	71°2	78°4	72°1	79°4	74°7	78°1	71°5	74°6	69°2	73°0	68°5	72°0	68°1
Feb. -	70°3	68°9	74°2	71°6	78°9	73°6	80°4	73°7	81°0	73°5	79°5	73°0	75°6	71°1	74°1	70°4	73°0	70°0
Mar. -	71°3	68°7	75°8	71°4	79°5	72°5	81°3	72°6	81°2	73°5	79°0	71°4	76°1	70°8	74°7	69°6	73°9	69°7
April	72°3	70°0	76°1	72°9	80°8	74°6	82°9	74°3	83°4	74°2	80°9	73°9	78°6	72°6	76°5	71°8	75°3	71°6
May -	74°5	71°9	78°1	74°0	80°9	74°9	83°0	76°4	83°9	73°6	81°8	74°7	79°9	73°9	78°2	73°4	76°7	73°1
June	76°3	73°8	79°8	76°4	83°0	77°0	84°0	76°8	82°9	76°2	80°9	75°5	79°2	74°5	77°9	73°8	76°9	74°4
July -	75°2	73°3	79°7	76°5	83°0	77°9	84°7	78°8	84°6	78°4	83°2	77°6	80°4	76°0	78°9	75°1	78°1	75°7
Aug. -	75°4	74°2	80°2	77°2	82°8	78°4	84°5	78°7	84°4	78°9	82°0	77°1	79°4	76°0	78°3	75°8	77°4	75°5
Sept.	73°8	72°8	79°8	76°6	84°7	78°7	85°8	78°4	85°3	77°9	82°2	76°4	79°1	75°2	76°9	74°6	76°1	74°4
Oct. -	72°4	71°6	78°4	75°8	83°6	77°7	84°5	77°2	83°9	77°0	81°7	75°9	78°4	74°5	77°0	74°0	76°4	73°9
Nov. -	71°0	69°5	75°6	72°7	80°7	75°2	82°1	75°3	81°1	74°7	79°4	74°0	76°2	72°1	75°0	72°0	74°3	71°8
Dec. -	67°5	66°7	72°0	70°2	78°0	73°6	79°2	73°7	79°0	72°9	77°3	72°2	73°8	70°0	72°4	69°4	71°2	68°6
Year -	72°3	70°5	76°7	73°5	80°9	75°4	82°6	75°6	82°5	75°3	80°5	74°4	77°6	73°0	76°1	72°3	75°1	72°2

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Jan. -	66°9	63°7	72°6	69°6	78°7	72°3	79°4	74°7	79°4	71°6	77°5	70°9	73°7	69°1	72°3	68°4	71°0	67°7
Feb. -	65°0	63°5	72°0	68°3	77°8	70°5	77°9	70°2	77°9	70°0	76°4	68°9	72°2	67°0	70°3	66°2	69°1	65°5
Mar. -	67°2	65°5	74°1	69°6	78°8	71°4	80°5	71°1	80°8	71°5	78°1	70°3	73°8	68°5	72°0	68°0	71°1	67°7
April	70°4	68°4	75°4	71°4	79°2	72°6	80°7	73°2	81°5	73°4	80°0	72°6	76°5	70°4	74°5	69°5	73°7	69°4
May -	73°1	71°4	76°9	73°5	80°6	75°0	82°6	76°3	81°9	75°1	79°1	75°9	76°8	72°8	75°2	72°2	74°2	71°9
June	75°3	73°3	78°4	76°4	81°2	76°2	82°8	76°3	82°5	76°0	80°7	75°3	78°9	74°4	76°8	73°6	76°0	73°3
July -	74°8	73°4	78°9	76°7	82°2	77°0	83°5	77°1	83°9	77°0	82°4	75°9	80°2	76°4	77°5	74°2	76°6	73°9
Aug. -	75°5	73°9	78°8	76°0	83°6	78°2	84°9	78°0	85°2	77°7	83°1	76°8	80°6	76°0	78°4	74°9	77°5	74°5
Sept.	74°7	73°2	80°0	76°8	85°7	78°9	86°3	78°4	85°7	78°5	84°1	77°9	81°0	76°5	78°4	75°2	77°4	74°7
Oct. -	73°0	71°6	78°7	75°3	83°9	77°4	84°9	77°6	84°0	76°7	81°3	75°4	78°1	74°0	76°9	73°2	76°2	73°1
Nov. -	71°6	70°5	76°2	73°5	81°2	76°4	82°9	76°3	83°4	76°1	80°5	75°0	77°5	73°8	76°0	73°3	75°2	72°6
Dec. -	67°2	66°0	69°9	68°2	77°1	72°0	79°5	72°7	79°4	72°0	77°8	71°2	73°9	69°3	72°8	69°0	72°0	68°7
Year	71°2	69°7	76°0	72°8	80°8	74°8	82°2	74°8	82°1	74°6	80°1	73°7	76°9	72°3	75°1	71°5	74°2	71°1

NOTE.—The values for August 1887 are for 26 days only, except for shade maxima and minima, which are for 29 days.

SANCHEZ, SAN DOMINGO.—MONTHLY MEANS AND SUMMARIES.

1886.

Month.	EXTREMES OF TEMPERATURE.								WIND FORCE.					LOWER CLOUDS.			RAIN-FALL.	
	Shade.				Radiation.				Beaufort Scale.					Vel.	Amount.			
	Min.	Day.	Max.	Day.	Solar.	Day.	Grass.	Day.	6 a.m.	10 a.m.	2 p.m.	6 p.m.	10 p.m.		6 a.m.	2 p.m.		10 p.m.
Jan. -	61°	18th	87°	11th	—	—	—	—	0.2	1.6	2.5	1.0	0.2	—	7.0	6.8	—	ins.
Feb. -	62°	18th	90°	27th	150°	22nd, 27th	—	—	0.6	1.6	3.0	1.1	0.2	—	7.8	6.5	5.6	4.73
March -	62°	4th	94°	11th	148°	28th	—	—	0.9	1.7	2.8	2.0	0.5	—	6.1	5.3	6.1	1.65
April -	65°	25th, 26th	96°	3rd	—	—	61°	26th	0.5	1.2	2.2	1.6	0.1	—	5.0	6.7	6.5	10.06
May -	66°	14th, 16th	94°	2nd, 27th	—	—	62°	14, 16, 18	0.6	1.5	2.3	1.5	0.4	—	6.4	7.2	6.4	10.06
June -	69°	8th	91°	23rd	—	—	68°	9th, 14th	0.3	1.3	2.1	1.2	0.4	—	7.3	7.9	8.1	9.77
July -	69.8	5th	90°	2nd, 16th	—	—	69°	4, 5, 19	0.2	1.1	2.0	0.7	0.1	111.8	5.4	7.1	7.2	5.78
August	69.5	3rd	93°	27th	—	—	68°	15th	0.6	1.5	2.3	1.0	0.2	125.7	6.1	7.4	7.1	13.23
Sept. -	69°	2nd	94°	22, 24, 28	153°	5th	67.5	2nd	0.6	1.2	2.0	0.6	0.3	98.8	5.6	7.1	6.8	6.13
October	66°	16th	92°	23rd, 26th	153°	2nd	64.5	16th	0.3	1.3	2.2	1.1	0.3	—	5.3	7.5	6.2	8.09
Nov. -	64°	30th	89.5	2nd	154°	4th	62°	30th	0.8	1.4	2.4	1.0	0.9	—	7.5	7.6	7.1	5.61
Dec. -	63°	25th	86°	6th	144°	1, 3, 14	61°	25, 26	0.6	0.9	1.9	0.5	0.1	90.6	7.3	6.6	5.7	5.51
Year -	—	—	—	—	—	—	—	—	0.5	1.4	2.3	1.1	0.3	—	6.4	7.0	—	91.96

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Jan. -	62°	17th	85°	7th, 11th	147°	7th	58°	26th	0.6	1.4	2.5	1.0	0.5	134.2	6.5	6.5	5.9	ins.
Feb. -	60°	25th	83°	8, 17, 23	147°	19th	56°	16th	0.6	1.4	2.4	1.1	0.5	151.4	5.9	6.9	4.4	2.56
March -	60°	7th, 10th	89°	17th	—	—	56°	10th	0.7	1.0	2.0	1.2	0.6	144.0	6.0	6.5	5.8	1.23
April -	62°	7th	89°	29th, 30th	—	—	59°	7th	0.6	1.4	2.0	1.2	0.6	175.3	6.8	6.2	5.7	3.57
May -	64°	4th	93°	20th	—	—	62°	4th	0.7	1.4	2.0	1.1	0.2	132.4	6.0	7.4	6.8	3.40
June -	68°	27th	89°	9th, 12th	—	—	67°	5th	1.0	1.6	1.7	1.1	0.4	165.0	6.5	7.8	7.1	10.28
July -	68°	3rd	90°	20, 25, 31	145°	22nd	68°	3, 4, 27	0.8	1.7	2.2	1.1	0.3	144.9	5.2	7.0	6.4	11.08
August -	—	—	—	—	—	—	—	—	1.0	1.4	1.8	1.1	0.3	138.8	6.3	7.7	—	5.21
Sept. -	68°	14th, 30th	96°	25th	153°	9th	67°	14th	0.9	1.3	1.7	1.1	0.2	135.9	4.4	7.3	5.3	6.39
October -	67°	20, 28, 30	92°	5th	150°	12th	65°	20th, 28th	0.7	1.1	1.5	0.6	0.1	111.6	4.7	7.6	5.5	7.52
Nov. -	66°	27th	92°	30th	—	—	65°	27th	0.8	0.9	1.7	0.9	0.3	116.5	6.0	7.5	7.1	3.66
Dec. -	60°	16th	86°	16, 25, 26	—	—	58°	16th	1.0	1.2	1.9	0.9	0.3	126.9	6.3	6.9	5.6	8.09
Year -	—	—	—	—	—	—	—	—	0.8	1.3	2.0	1.0	0.4	139.7	5.9	7.1	—	2.74

1886.

Month.	RAINFALL.			WEATHER, NO. OF DAYS OF						WIND DIRECTION, NO. OF OBSERVATIONS OF								
	Total.	Max.	Day.	Rain.	Hail.	Thunder-storm.	Lightning.	Mist or Fog.	Gale.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.
Jan. -	ins.	ins.	26th	11	0	0	0	29	0	2	21	23	4	0	7	15	2	81
Feb. -	4.73	.98	6th	13	0	0	0	25	0	3	11	46	12	4	1	12	3	48
March -	1.65	.48	19th, 24th	7	0	1	1	23	0	13	22	59	8	3	3	12	5	30
April -	10.06	6.00	4th	10	0	6	3	25	0	7	8	51	9	10	1	13	1	50
May -	10.60	2.29	31st	8	0	8	3	16	1	3	11	57	12	8	2	9	1	52
June -	9.77	1.50	10th	12	0	15	2	18	0	0	15	66	7	1	1	5	0	55
July -	5.78	1.80	13th	11	0	11	5	13	0	0	8	63	7	0	0	4	0	73
Aug. -	13.23	2.40	25th	18	0	10	2	16	1	0	11	65	4	4	0	6	0	65
Sept. -	6.13	2.00	26th	14	0	13	8	28	0	4	9	28	13	6	4	24	4	58
Oct. -	8.09	4.95	22nd	14	0	5	9	30	1	10	21	26	16	2	2	11	4	63
Nov. -	5.61	1.12	9th	21	0	6	3	23	0	20	23	19	5	0	3	19	9	52
Dec. -	5.51	.54	17th, 18th	21	0	0	0	26	0	3	15	23	13	3	3	26	3	66
Year -	91.96	—	—	160	0	75	36	272	3	65	175	526	110	41	27	156	32	693

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Jan. -	ins.	ins.	20th	16	0	0	0	12	0	2	16	51	17	3	2	19	1	44
Feb. -	1.23	.25	22nd	10	0	0	0	14	0	3	23	48	13	4	2	8	2	37
March -	3.57	1.33	19th	14	0	4	0	14	0	15	16	40	16	9	1	19	1	38
April -	3.40	1.94	16th	6	0	1	2	15	0	6	6	77	12	6	0	10	1	32
May -	10.28	5.50	16th	18	0	13	4	18	0	7	12	49	22	11	0	15	2	37
June -	11.08	2.50	21st	17	0	17	2	22	0	2	6	68	12	10	2	13	0	37
July -	5.21	1.38	25th	16	0	17	5	20	0	3	9	58	27	1	0	21	1	35
Aug. -	6.39	2.06	2nd	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sept. -	7.52	1.40	19th	17	0	12	18	20	0	3	7	54	16	9	2	20	3	36
Oct. -	3.66	.65	7th	17	0	9	7	22	0	2	14	39	10	12	4	22	1	51
Nov. -	8.09	2.15	18th	14	0	4	7	22	0	8	10	33	15	9	3	20	6	46
Dec. -	2.74	.87	3rd	15	0	0	0	21	0	4	7	31	9	4	2	48	7	43
Year -	65.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE.—The values for August 1887 are for 26 days only, except for rainfall and wind-velocity, which are complete.

SANCHEZ, SAN DOMINGO.—MONTHLY MEANS AND SUMMARIES.

1888.

Month.	BAROMETER				TEMPERATURE.														Sunshine.
	At 32° Fahr. and Mean Sea Level.				7 a.m.		9 a.m.		2 p.m.		9 p.m.		Shade.		Radiation.		Earth.		
	7 a.m.	9 a.m.	2 p.m.	9 p.m.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Dry.	Wet.	Min.	Max.	Solar.	Grass.			
Jan.	-	ins. 30°183	ins. 30°215	ins. 30°145	ins. 30°185	67°6	65°9	74°5	70°4	78°8	70°9	71°8	68°0	64°6	82°5	—	61°5	79°0	220°7
Feb.	-	"136	"154	"089	"125	68°1	66°2	74°8	70°4	78°1	70°5	71°4	67°3	64°9	80°5	—	61°0	78°6	218°4
March	-	"143	"165	"105	"141	69°6	66°9	75°2	69°9	79°2	70°9	71°6	67°6	65°9	81°3	—	61°7	78°7	211°8
April	-	"115	"135	"085	"111	70°7	68°3	77°7	72°3	81°0	72°8	73°1	69°4	67°8	83°5	144°4	64°2	80°9	158°8
May	-	"094	"104	"064	"093	74°9	72°7	78°6	74°9	80°7	75°3	75°0	72°4	71°6	82°4	140°9	68°5	79°6	176°4
June	-	"098	"101	"060	"087	76°9	74°9	80°6	76°8	83°7	77°5	77°1	74°5	73°4	85°2	143°0	70°6	80°6	229°8
July	-	"118	"124	"081	"109	77°8	75°4	81°4	77°6	83°8	77°5	78°1	75°0	73°8	86°0	144°2	71°2	82°6	254°6
Aug.	-	"081	"087	30°039	30°074	77°5	75°0	81°9	77°5	84°9	78°0	78°2	74°7	73°4	86°8	144°2	70°8	82°8	250°6
Sept.	-	"001	"006	29°952	29°987	76°5	74°6	81°0	77°4	83°4	77°5	78°2	75°2	73°3	86°6	145°2	70°6	81°8	192°7
Oct.	-	30°011	"027	"970	30°001	74°9	73°5	82°1	78°0	85°0	77°9	77°8	75°0	72°7	87°4	145°9	69°9	82°2	208°4
Nov.	-	29°996	"034	29°967	29°991	72°3	74°6	79°2	76°4	84°3	79°5	75°6	74°3	70°3	86°3	147°0	67°8	80°2	165°5
Dec.	-	30°071	30°107	30°033	30°073	71°4	70°4	76°0	74°0	80°7	75°6	74°9	73°3	69°8	83°2	134°7	67°2	78°9	140°7
Year	-	30°087	30°105	30°049	30°081	73°2	71°3	78°6	74°6	82°0	75°3	75°2	72°2	70°1	84°3	—	67°1	80°5	2431°4

Month.	EXTREMES OF TEMPERATURE.								WIND FORCE.			LOWER CLOUDS.	
	Shade.				Radiation.								
	Min.	Day.	Max.	Day.	Solar.	Day.	Grass.	Day.	9 a.m.	9 p.m.	Vel.	9 a.m.	9 p.m.
Jan.	60°0	7th	89°0	4th	—	—	58°0	7th	1°1	0°7	miles. 125°6	7°1	5°1
Feb.	62°0	20th, 23rd	86°0	6th	—	—	58°0	17th, 23rd	1°0	0°7	145°8	6°8	5°5
March	58°5	4th	89°0	12th	—	—	55°0	3rd, 4th	1°6	1°0	172°4	7°0	5°9
April	61°5	9th	90°8	21st	154°5	8th, 25th	56°0	9th	1°5	0°8	164°8	7°5	6°6
May	67°3	2nd	88°0	15th	147°5	21st	62°3	5th	1°9	0°5	193°1	6°6	7°9
June	69°0	8th	89°0	19th	152°0	24th	67°5	8th, 9th	1°7	0°6	160°9	6°0	7°2
July	70°0	20th, 21st	90°0	3rd	151°5	25th	68°0	20th	1°7	0°6	172°5	6°5	7°5
Aug.	71°0	22nd	89°0	8th, 28th, 31st	154°0	6th	68°0	22nd, 30th	1°5	0°3	155°1	7°0	5°3
Sept.	68°0	19th	90°5	4th, 5th	156°0	4th	65°0	19th	1°1	0°7	134°6	6°2	6°5
Oct.	70°0	21st, 25th, 31st	92°5	8th	152°0	27th	66°3	25th	1°3	—	133°9	—	—
Nov.	67°5	18th	90°0	1st, 29th	156°0	20th	62°0	9th	1°2	—	99°5	—	—
Dec.	65°5	23rd	87°5	8th	151°5	10th	63°0	18th	1°3	—	114°8	6°0	—
Year	—	—	—	—	—	—	—	—	1°4	—	147°8	—	—

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METEOROLOGICAL OBSERVATIONS

TAKEN AT

ORKNEY;

WITH

REMARKS ON THE CLIMATE.

By

THE REV. CHARLES CLOUSTON,

MINISTER OF SANDWICK, L.R.C.S. EDIN., PRES. ORK. NAT. HIST. SOC., &c.

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1861.



INTRODUCTORY NOTES ON SOME METEOROLOGICAL OBSERVATIONS AT ORKNEY.

The Reverend C. Clouston's barometrical observations, extending from 1839 to 1859, are uncorrected for temperature (see heading of Table II.) For the first 17 years the observations were taken at 9.15 A.M. and 8.30 P.M., during the last four years at 9 A.M. and 9 P.M.; the whole have been taken together to form means, without taking notice of the different times at which the observations were made.

There are some very wide extremes in the mean monthly pressures for January; in 1839 the mean pressure was 29.076 in., and in 1855, 30.065 in.

The thermometrical observations extend from 1827 to 1859. The place of observation during the first six years was the Manse of Stromness, and for the last 27 the Manse of Sandwick, which is about 7.5 miles N. of the former; the times of reading the instruments being during the first 12 years 10 A.M. and 10 P.M.; for the next 17 years 9.15 A.M. and 8.30 P.M., and in the last four years 9 A.M. and 9 P.M.

The observations on rain extend from 1841 to 1859.

The wind was observed, for direction only, from 1827 to 1859; for the first sixteen years, only eight points of the compass were noted, for the next 14 years and four months, 16 points were used. The table of the direction of the wind is made out for eight points.

For the year 1857 an abstract of the observations is furnished, in addition to the means given in the tables.

Abstracts of the observations at Orkney for the years 1857 and 1859 are given, with an abstract for all Scotland for 1857.

On page 13 the rain-fall at Sandwick is compared with that in various parts of Great Britain, the amounts being given without stating whence they were obtained. The fall at London is given as 20 in. instead of 25 in.; and at Whitehaven as 54 in. instead of 48 inches in a year.

R. F.

G. H. S.



METEOROLOGICAL OBSERVATIONS.

TABLE I.—Showing the MEAN MONTHLY and ANNUAL TEMPERATURE of ORKNEY for 33 Years. The Register was kept at the Manse of Stromness for the first six Years, and at that of Sandwick for the last 26. The former is about half a mile from the sea-shore, and nearly 100 feet above its level. The latter is about two miles from the shore, and 100 feet above its level. The thermometer was marked twice a day, at 10 A.M. and 10 P.M., during the first 12 years; at a quarter past 9 A.M. and half past 8 P.M. for 17 years; and at 9 A.M. and 9 P.M. for the last three years. No corrections for diurnal range or altitude.

YEARS.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Annual.
1827	35.09	35.09	38.59	43.83	49.16	53.40	55.61	55.04	54.33	50.95	43.11	43.24	46.45
1828	40.22	38.82	41.45	43.60	45.30	56.04	58.25	57.26	55.41	54.19	45.53	43.24	48.27
1829	36.14	39.46	40.69	41.51	49.99	53.43	57.12	54.36	50.21	45.56	41.40	39.51	45.78
1830	37.96	36.71	41.83	44.80	50.77	51.66	56.14	53.14	53.46	49.41	42.76	36.33	46.24
1831	36.70	37.71	42.65	44.88	48.70	56.13	57.86	58.90	54.73	51.73	40.50	44.07	47.88
1832	41.49	42.22	42.22	46.24	47.31	54.73	54.25	56.07	52.61	49.38	45.43	41.40	47.77
1833	37.14	38.37	38.68	43.23	51.43	51.60	54.73	52.40	52.34	49.20	41.58	39.28	45.83
1834	38.90	40.21	41.11	43.05	48.75	58.02	58.03	56.89	52.90	48.07	44.01	45.17	47.92
1835	39.75	39.48	41.20	42.25	46.01	51.76	53.57	54.77	53.01	45.70	45.68	40.44	46.13
1836	39.14	37.46	39.61	41.39	47.77	52.03	52.51	51.83	48.35	45.91	40.93	38.57	44.62
1837	38.82	39.32	36.54	39.13	45.24	51.06	50.56	53.75	51.58	49.36	41.59	42.44	44.94
1838	33.56	31.31	38.64	39.23	44.75	48.20	53.86	52.28	50.28	45.77	39.71	41.78	43.28
1839	35.99	37.62	36.33	42.11	44.91	50.99	55.57	53.14	52.78	47.64	43.23	40.41	45.06
1840	38.80	37.98	41.35	45.93	44.81	50.24	52.36	55.72	49.73	46.38	42.23	39.82	45.44
1841	34.81	38.42	44.41	43.41	49.48	50.75	51.56	53.23	52.54	43.50	39.65	39.64	45.11
1842	37.69	40.35	41.14	45.32	50.28	53.30	54.39	56.73	52.94	46.51	40.16	44.97	46.98
1843	39.64	33.56	39.02	42.66	46.08	50.04	54.31	56.53	54.75	43.50	41.90	45.45	45.62
1844	40.12	34.18	39.45	46.26	47.94	50.51	52.93	53.51	51.02	46.41	43.55	38.18	45.34
1845	39.45	36.51	37.33	45.18	47.06	53.16	53.31	53.16	50.59	47.98	43.99	38.27	45.50
1846	42.42	43.05	40.19	42.58	48.60	57.30	56.45	58.82	55.43	49.36	46.02	38.16	48.20
1847	39.56	37.91	41.79	42.25	48.15	52.73	57.13	55.54	48.67	48.18	45.28	40.29	46.46
1848	38.39	38.40	41.17	42.15	50.48	52.48	53.75	53.61	52.25	46.57	41.72	41.37	46.03
1849	38.99	41.15	41.96	41.85	48.73	49.42	54.60	53.78	52.84	45.97	43.02	40.79	46.09
1850	37.14	41.89	41.43	44.27	46.89	53.64	56.36	53.95	51.32	45.58	42.58	42.72	46.48
1851	41.72	40.64	40.85	43.53	47.35	51.93	52.48	53.75	51.90	49.14	40.29	44.41	46.50
1852	40.29	39.94	41.95	47.64	50.49	55.33	61.36	60.64	53.45	46.88	41.52	40.74	48.35
1853	38.55	33.74	38.24	44.49	49.07	55.21	58.15	55.98	53.28	48.66	44.87	38.97	46.60
1854	36.47	39.22	45.14	44.68	48.39	52.86	55.25	55.06	55.07	46.39	42.05	39.13	46.64
1855	38.16	31.64	36.61	43.20	43.81	52.23	59.19	56.10	52.74	45.72	43.49	39.41	45.19
1856	38.00	40.84	40.39	44.56	46.83	51.47	54.77	53.22	50.83	48.84	40.22	39.38	45.78
1857	37.63	40.52	39.08	41.61	47.94	53.86	54.77	56.70	55.32	49.30	46.59	46.42	47.49
1858	41.44	38.26	38.64	41.94	47.30	55.02	53.35	56.59	53.73	44.44	41.23	42.51	46.20
1859	40.46	40.21	40.23	39.51	49.54	52.88	54.98	55.20	51.73	46.06	41.05	35.31	45.60
Means	38.50	38.25	40.30	43.28	47.86	52.83	55.14	55.08	52.49	47.52	42.63	40.96	46.24

TABLE II.—Showing the MEAN MONTHLY and ANNUAL STATE of the BAROMETER in ORKNEY for 21 Years. It was marked twice a day at the manse of Sandwick, which is about 100 feet above the sea level and two miles from the sea-shore. Not corrected for temperature or elevation.

YEARS.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1839	29.076	29.487	29.740	30.018	29.936	29.869	29.727	29.822	29.436	29.969	29.668	29.587	29.694
1840	29.355	29.770	30.262	29.948	29.897	29.823	29.698	29.795	29.563	29.899	29.492	30.036	29.794
1841	29.677	29.791	29.628	29.716	29.759	29.894	29.754	29.725	29.729	29.554	29.600	29.419	29.687
1842	29.861	29.600	29.510	30.169	29.843	29.964	29.904	29.904	29.896	29.840	29.703	29.635	29.819
1843	29.344	29.779	29.880	29.700	29.923	29.933	29.827	29.814	30.045	29.486	29.529	29.913	29.764
1844	29.709	29.454	29.630	29.903	30.213	29.853	29.845	29.172	30.004	29.586	29.771	30.059	29.767
1845	29.575	29.802	29.884	29.826	29.987	29.773	29.849	29.788	29.760	29.705	29.452	29.409	29.734
1846	29.495	29.682	29.524	29.791	29.804	29.883	29.714	29.914	29.930	29.554	29.802	29.740	29.736
1847	29.781	29.728	29.935	29.615	29.815	29.863	29.975	29.871	29.682	29.804	29.636	29.596	29.792
1848	29.811	29.287	29.554	29.720	29.930	29.735	29.717	29.679	29.836	29.768	29.625	29.602	29.689
1849	29.506	29.751	29.854	29.626	29.638	29.734	29.769	29.815	30.003	29.727	29.631	29.910	29.747
1850	29.866	29.447	30.000	29.673	29.778	29.883	29.919	29.695	30.010	29.688	29.548	29.645	29.742
1851	29.394	29.776	29.604	29.852	29.960	29.800	29.756	29.891	30.139	29.598	29.859	29.985	29.801
1852	29.245	29.736	30.139	30.116	29.864	29.621	29.921	29.716	29.883	29.796	29.454	29.334	29.735
1853	29.406	29.743	29.849	29.684	30.014	29.810	29.657	29.857	29.801	29.557	29.838	29.987	29.767
1854	29.493	29.789	30.012	30.033	29.683	29.812	29.877	29.863	29.880	29.629	29.709	29.397	29.765
1855	30.065	29.821	29.575	29.873	29.865	29.888	29.843	29.772	30.002	29.579	29.973	29.626	29.823
1856	29.496	29.833	30.178	29.758	29.869	29.793	29.764	29.852	29.727	30.020	29.900	29.469	29.805
1857	29.588	29.684	29.720	29.721	29.941	29.997	29.731	29.978	29.835	29.722	30.051	29.760	29.811
1858	29.867	29.902	29.707	29.863	29.762	29.754	29.847	29.873	29.766	29.762	29.881	29.551	29.795
1859	29.631	29.550	29.508	29.680	29.970	29.850	29.840	29.777	29.632	29.637	29.762	29.551	29.699
Mean	29.583	29.686	29.795	29.823	29.879	29.835	29.806	29.789	29.836	29.709	29.709	29.677	29.761

TABLE III.—Showing the TOTAL MONTHLY and ANNUAL QUANTITY of RAIN in ORKNEY for 19 Years, with the MEAN MONTHLY and ANNUAL QUANTITY for that Period. Kept at the Manse of Sandwick.

YEARS.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1841	5.00	1.93	2.54	1.97	3.52	1.64	3.16	3.31	3.09	4.88	3.51	5.43	39.98
1842	3.28	2.20	3.98	0.51	0.98	2.34	1.88	4.69	3.13	5.68	3.88	4.44	36.99
1843	6.25	1.32	2.46	4.05	2.31	1.04	2.92	1.84	2.00	6.38	4.17	3.70	38.44
1844	4.42	3.22	3.68	1.28	1.60	2.32	1.17	2.86	1.99	4.52	3.25	1.77	32.08
1845	2.97	2.56	3.17	0.94	1.02	2.40	1.69	4.13	2.82	7.82	4.01	7.41	40.94
1846	4.38	3.34	3.47	1.95	1.88	1.60	2.13	2.91	0.60	3.55	3.27	3.97	33.05
1847	1.51	3.48	1.56	3.32	2.28	2.72	2.56	3.20	6.05	4.70	4.15	5.24	40.77
1848	2.80	5.57	2.79	1.15	1.78	2.67	3.37	2.04	1.56	3.97	6.23	3.87	37.80
1849	7.54	4.92	2.71	1.91	0.78	2.33	3.72	3.33	1.76	2.85	4.45	4.22	40.52
1850	3.81	4.98	2.43	2.20	1.84	1.99	1.16	4.61	4.05	7.32	6.81	3.11	44.31
1851	4.29	3.50	2.36	1.52	1.77	2.86	3.32	2.23	0.91	3.96	4.11	2.59	33.42
1852	5.23	3.81	0.78	0.11	1.42	3.05	2.58	0.62	2.64	4.12	5.18	5.04	34.58
1853	5.12	2.50	1.79	3.30	0.71	2.13	1.57	2.83	3.54	5.94	2.62	1.67	33.72
1854	4.72	4.10	1.65	1.42	1.61	1.85	2.52	2.40	4.18	5.21	4.82	7.75	42.23
1855	3.26	1.32	3.58	2.89	1.38	2.64	2.97	3.98	1.74	5.28	1.37	4.64	35.05
1856	2.33	2.42	0.34	0.34	0.89	2.36	3.36	1.40	3.18	1.01	4.61	5.17	27.41
1857	5.45	2.96	4.12	1.37	0.89	0.56	2.77	2.75	2.75	2.81	1.93	3.55	31.91
1858	3.78	0.74	2.71	0.86	2.43	2.24	4.05	2.64	2.80	5.89	2.83	3.40	34.37
1859	5.46	4.20	5.41	4.33	0.38	2.41	2.81	2.27	2.85	6.26	2.66	5.39	44.43
Total	81.60	59.07	51.53	35.42	29.47	41.15	49.71	54.04	51.64	92.05	73.86	82.36	662.00
Mean	4.29	3.11	2.71	1.86	1.55	2.17	2.62	2.84	2.72	4.85	3.89	4.33	36.95

TABLE IV. —Shewing the NUMBER of DAYS that the WIND BLEW from each DIRECTION in ORKNEY each MORNING for 33 Years. During the first 16 years the 8 points of the compass only were recorded, as noted in the Table; but during the next 14 years, and 4 months of 1857, 16 points were registered. Though noted twice a day, to facilitate the tabulation the morning observations only are here given; and to condense and make it comparable with other tables where 8 points only are generally given, the additional 8 points are struck out, and are all added to the cardinal points to which they approximated, thus giving them an advantage over the intermediate points to which they are not fairly entitled.

YEARS.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Variable or Calm.
1827	40	24	13	76	35	30	77	57	13
1828	31	24	27	84	49	40	45	54	12
1829	47	27	22	61	51	23	57	57	20
1830	53	17	16	73	58	32	51	45	20
1831	29	18	27	93	38	40	55	44	21
1832	36	9	22	60	63	49	69	38	20
1833	29	15	10	74	70	47	63	36	21
1834	28	16	14	31	71	69	76	38	22
1835	32	20	18	74	39	49	73	51	9
1836	27	15	23	59	43	59	83	46	11
1837	39	11	43	61	44	45	52	52	18
1838	31	10	46	93	29	36	55	49	16
1839	32	16	39	93	50	21	66	35	13
1840	43	17	32	77	41	29	63	40	24
1841	40	17	48	79	45	31	57	36	12
1842	30	16	32	72	44	51	61	41	18
1843	39	22	35	69	38	54	48	48	12
1844	34	22	30	74	25	47	56	55	23
1845	30	28	25	76	31	55	41	54	25
1846	18	28	35	100	27	50	51	31	25
1847	37	13	32	73	55	22	71	25	37
1848	38	23	53	40	64	22	74	18	34
1849	41	11	56	46	52	31	70	35	23
1850	49	3	33	57	48	26	93	29	27
1851	47	14	36	36	53	22	94	25	38
1852	44	12	51	45	51	22	68	32	41
1853	40	18	45	54	64	23	68	23	30
1854	32	12	38	31	54	36	107	40	15
1855	43	22	60	25	64	17	74	35	25
1856	54	23	54	39	45	14	91	23	23
1857	21	15	44	63	64	44	72	24	18
1858	22	17	14	74	48	50	82	41	17
1859	30	22	25	64	42	57	67	36	22
Total									
Mean	35.9	17.5	33.3	64.4	48.3	37.7	67.6	39.2	21.4

TABLE V.—ABSTRACT OF METEOROLOGICAL OBSERVATIONS IN ORKNEY for 1857, kept uniformly with the other STATIONS of the SCOTTISH METEOROLOGICAL SOCIETY, as published in their Reports.

—	Baro- meter.	Self-registering Thermometers.								Hygro- meter.		Deductions.			Wind.								Rain.		Tem- pera- ture of Soil at 12 inches.	Tem- pera- ture of a Spring.		
		Highest in Month.	Lowest in Month.	Monthly Range.	Mean of all the Highest.	Mean of all the Lowest.	Mean daily Range.	Mean tempe- rature.	Dry Bulb.	Wet Bulb.	Dew Point.	Elastic Force of Vapour.	Humidity, Sat. 100.	Number of Days it blew from each Direction.								Mean Pressure on square Foot.	Number of Days it fell.	Amount.				
														N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.						Vari- able or Calm.	
January	in. 29.698	50.0	25.0	25.0	41.5	34.4	7.1	38.0	37.6	36.2	34.3	.198	88	4	1	3½	4½	5½	3½	5½	2½	1	1.77	25	5.45	44.50	38.0	45.00
February	29.744	50.0	28.0	22.0	44.6	36.9	7.7	40.7	40.5	39.2	37.5	.224	90	...	...	½	6	10½	5	5	...	1	2.15	16	2.96	44.50	40.0	45.00
March	29.775	50.0	29.0	21.0	43.7	34.7	9.0	39.2	39.0	37.8	36.2	.214	90	1½	½	8	7½	3½	3	5½	½	1	1.84	22	4.12	43.80	39.2	45.00
April	29.796	56.5	28.0	28.5	47.4	36.7	10.7	42.0	41.6	40.0	38.0	.210	81	1½	½	8	8	2	1	4	2½	2½	1.47	15	1.37	44.00	42.2	44.50
May	30.036	60.0	37.0	23.0	53.4	43.4	10.0	48.4	47.9	45.5	42.8	.275	84	1½	2½	6	9½	3	2	3	2½	1	1.41	10	0.89	46.75	48.2	44.65
June	30.042	69.0	41.0	28.0	55.9	48.4	7.5	52.1	53.8	51.0	48.3	.336	81	2½	2	4½	7½	1½	2	6	½	4½	1.08	5	0.56	50.75	52.7	45.90
July	29.816	67.0	45.0	22.0	58.5	51.3	7.2	54.9	54.7	52.9	51.1	.376	88	2½	2	...	1½	5½	5	12	1½	1	1.43	21	2.77	52.83	55.4	48.00
August	30.030	69.5	48.5	21.0	60.9	53.0	7.9	56.9	56.7	54.3	52.0	.390	84	1½	½	1	9½	2½	2	6	4½	3½	1.48	11	2.75	55.34	57.6	48.75
September	29.888	64.0	40.0	24.0	59.5	51.0	8.4	55.2	55.3	54.0	52.2	.399	91	1	3	9	4½	2	4½	2½	1½	2	1.60	19	2.75	56.25	56.2	48.75
October	29.785	57.0	39.0	18.0	52.9	45.1	7.7	49.5	49.3	47.5	45.5	.306	88	2	2	2	6½	3½	5	6	1	3	1.46	17	2.81	54.54	49.1	48.85
November	30.120	57.0	31.5	25.5	49.6	43.3	6.4	46.4	46.5	45.1	43.5	.283	90	2½	3½	1½	3½	6½	2½	5	1½	3½	1.30	14	1.93	52.04	46.2	48.00
December	29.837	54.0	37.0	17.0	49.8	42.1	7.7	45.9	46.4	44.2	41.8	.264	85	1	...	...	2½	8½	9	7½	1½	1	1.85	23	3.55	49.81	43.6	48.00
TOTALS	358.567	70.40	429.0	275.0	615.7	520.3	97.3	569.1	569.3	547.7	523.2	347.5	1040	21.5	175	44	71	54.5	44.5	68	20	25	18.54	198	31.91	595.63	568.4	560.40
Means	29.881	58.7	35.7	22.9	51.3	43.4	8.1	47.4	47.4	45.6	43.6	289	86	1.8	1.5	3.7	6.0	4.5	3.7	5.7	1.6	2.1	1.54	16	2.66	49.63	47.4	46.70

TABLE VI.—ABSTRACT OF METEOROLOGICAL OBSERVATIONS for all SCOTLAND in 1857, as published in the REPORTS of the SCOTTISH METEOROLOGICAL SOCIETY.

	BARO-METER.	SELF-REGISTERING THERMOMETERS.								HYGRO-METER.			DEDUCTIONS.		WIND.								RAIN.		Tem- pera- ture of Sea.					
		Highest in Month.	Lowest in Month.	Monthly Range.	Mean of Highest.	Mean of Lowest.	Mean daily Range.	Mean Tempe- rature.	Dry Bulb.	Wet Bulb.	Dew-point.	Elastic Force of Vapour.	Humidity, Sat. 100.	Number of Days it blew from each Direction.								No. of Days.	Amount.							
														N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.			Calm or varia- ble.		Force.				
January	-	29.698	55.0	4.9	50.1	39.8	31.6	8.2	35.7	35.6	34.3	32.3	.184	in.	87	3½	3½	2	1½	2	6	7	4	2	2	lbs. 1.25	16	in. 2.77	40.5	
February	-	29.840	60.0	4.0	56.0	44.3	34.3	10.0	39.3	39.2	37.8	35.9	.211	in.	89	½	...	1	2½	5	10½	5½	1	2	2	2	1.77	11	1.54	42.4
March	-	29.804	62.0	12.5	49.5	44.0	34.5	9.5	39.2	38.9	37.2	35.0	.205	in.	86	1	3	7	4	3	5	5	2	1	1	1.88	16	2.94	43.0	
April	-	29.767	66.0	20.0	46.0	48.7	36.7	12.0	42.7	42.8	40.7	38.2	.231	in.	84	2	3	7	4	3	3½	3½	2	2	2	1.18	16	2.38	44.5	
May	-	29.959	75.0	28.0	47.0	57.0	42.6	14.4	49.8	49.7	47.0	44.1	.290	in.	80	1½	4	8½	4½	3	4½	2½	1½	2	2	0.79	13	1.66	48.9	
June	-	30.020	95.0	28.5	66.5	66.0	48.8	17.2	57.4	57.6	54.4	51.7	.384	in.	81	2	4	6	4	3	4	2½	1½	3	3	0.65	9	2.79	53.3	
July	-	29.832	78.0	31.5	46.5	65.1	51.0	14.1	58.0	58.1	54.8	51.9	.386	in.	80	1½	1	½	½	2	9½	10½	3½	2	2	1.55	15	2.17	54.7	
August	-	30.014	87.0	34.0	53.0	67.1	53.0	14.1	60.0	59.7	57.2	54.9	.433	in.	85	2½	3	3½	3½	3	5½	4½	2	4	4	1.04	10	1.87	55.9	
September	-	29.882	77.9	30.0	47.9	62.5	49.7	12.8	56.1	56.0	54.0	52.1	.391	in.	87	1½	3½	3½	2	3½	6	5½	1½	3	3	1.38	15	3.82	57.3	
October	-	29.803	71.0	24.0	47.0	55.3	43.9	11.4	49.6	49.4	47.9	46.4	.315	in.	90	1½	3	3½	3½	3	7	6	1½	2	2	1.29	16	2.36	53.8	
November	-	30.115	66.0	16.0	50.0	48.3	39.2	9.1	43.7	43.5	42.3	40.9	.256	in.	90	2½	3½	4½	3½	2	5	3	2½	3½	3½	1.10	12	2.89	50.0	
December	-	29.989	60.0	22.0	38.0	49.2	40.7	8.5	44.9	45.0	43.4	41.6	.261	in.	88	½	...	...	1	3	15	8	2	1½	1½	2.32	14	3.37	47.0	
TOTALS	-	358.723	852.9	255.4	597.5	647.3	506.0	141.3	576.4	575.5	551.0	525.0	.3547	in.	1027	20.5	31.5	47.0	34.5	35.5	81.5	63.5	24.0	28.0	28.0	16.20	163	30.56	591.3	
Means	-	29.894	71.1	21.3	49.8	53.9	42.2	11.8	48.0	48.0	45.9	43.7	296	in.	86	1.7	2.6	3.9	2.9	3.0	6.8	5.3	2.0	2.3	2.3	1.35	14	2.55	49.3	

REMARKS ON THE CLIMATE OF ORKNEY,

By the Rev. CHARLES CLOUSTON, Minister of SANDWICK, L.R.C.S. Edin., Pres. Ork. Nat. Hist. Soc., &c.

STRANGERS have hitherto formed a wrong and unfavourable opinion of the climate of Orkney; and some of its peculiarities are only beginning to be understood by even the best informed of its own inhabitants.

Situated farther north than any part of the mainland of Scotland, or the Naze of Norway, nearly in the same latitude as Stockholm and St. Petersburg on the east, and Cape Farewell and Hudson's Bay on the west, buffeted by the Atlantic on one side and the North sea on the other, they are apt to think that its climate must be similar, or worse, than that of those hyperborean regions; Orkney is, however, more highly favoured, and the consideration of its peculiarities and their causes may be interesting.

Meteorological observations for the last 32 years have been made in Orkney; at the manse of Stromness for the first six, and at the manse of Sandwick for the last twenty-six of that period. From these it has been ascertained that the mean annual temperature of Orkney is not only equal to that of the north and middle of Scotland, but even to that of the southern border; for on comparing the Orkney table of temperature for the last 32 years, with one for 20 years, kept by that accurate observer, Dr. Dunbar of Applegarth, Dumfries-shire, we find the mean temperature of Orkney to be $46^{\circ}26'$, and that of Applegarth $46^{\circ}24'$, the difference being so minute that the mean temperature may be considered equal. While, however, this station in Dumfries is between 4° and 5° colder than Orkney in December and January, its temperature gradually rises, till, in July, which is the warmest month in both places, it is above 3° warmer than Orkney. This greater equability of the temperature of Orkney than that of the southern and interior parts of Scotland, which was thus proved by careful meteorological observations, was no doubt believed before, as continued frost in winter, and considerable heat in summer, are little known in Orkney; but that the mean annual temperature of these northern islands is equal to that of the southern border, is a fact which astonished many, and was little anticipated by the observers themselves. The mildness of the Orkney winter is indeed so great, that the mean temperature of December, January, and February there, is higher than that of several parts of England. "This arrangement may be pleasant or favourable to animal life, but it is far from favourable to vegetation, as the luxuriance of the common crops depends on the temperature of three or four months in summer, while they are in the ground, and not at all on that of the rest of the year; and if Orkney could gain a few degrees of temperature in these months, by sacrificing as many in winter, its agriculturists would greatly gain by the exchange." If this equability of temperature is injurious to the growth of common annual crops, it is doubly so to such perennials as trees, as there is neither such extreme heat in summer as to mature the wood of the young branches, which are therefore killed in winter, nor such extreme cold in winter as to lay vegetation completely asleep. Evergreens are particularly sickly in Orkney; the sea spray in winter, which frequently loads the air, and falls and crystallizes on their leaves, rendering them much more liable to be killed than other kinds of trees, some of which grow under shelter to the height of 20 or 30 feet.

It will be seen from the table of temperature for 33 years (No. I.), that the difference between the mean temperature of February, which is the coldest month ($38^{\circ}25'$), and that of July, which is the warmest ($55^{\circ}14'$), is only about 17° , and that during all that period the mean temperature of any month never fell so low as the freezing point, except in February 1838 and February 1855, when it was respectively $31^{\circ}31'$ and $31^{\circ}64'$, and that it never rose so high as 60° , except in July and August 1852, when it was $61^{\circ}36'$ and $60^{\circ}64'$.

That the Atlantic moderates the extremes, and that it elevates the temperature of winter more than it depresses that of summer, will be evident, when we consider that in 1857, when observations were first regularly noted, the Atlantic was about 6° warmer than the mean temperature of the air in January and February, and continued warmer for seven months, being nearly equal in April and August, and colder only in May, June, and July, when the difference did not amount to 2° at an average. In 1858 these differences were still more strongly marked, the mean

temperature of the Atlantic being $49^{\circ}66'$ or $3^{\circ}46'$ above that of the air, which it exceeded during ten months, and only fell below it during June and August. This explains also, how there is never frost and snow with west wind, and how, if the wind change to the west during frost, the thermometer speedily rises to 40° and upwards, because we have never yet found the Atlantic to be colder than 43° .

Another peculiarity of the Orkney climate is the way in which the temperature is distributed among the months; but this only becomes apparent from the result of our long series of observations. In Britain generally, and particularly in the inland parts, the greatest heat occurs about the middle of July, and the greatest cold about the middle of January, and the months equidistant from these are most nearly of equal temperature, as February and December. In Orkney, however, February is the coldest month, though only ($0^{\circ}25'$) colder than January, and August is only a decimal of a degree colder than July, viz. $0^{\circ}6'$. Indeed in the course of these 33 years January has been colder than February 16 years, and August has been hotter than July 14 years, so that January and February may be considered equally cold, and July and August equally warm, and the months equidistant from them on each side will be found to correspond most nearly in temperature, as March and December, and again June and September. These facts are undoubted, and meteorologists agree in ascribing this retardation of the period of extreme heat and cold to the influence of the surrounding ocean, which is neither so quickly heated in summer, nor cooled in winter, as the surface of the land. The observations of the temperature of the sea are only completed for three years, and therefore we cannot speak decidedly, but we believe it will be found that its highest temperature does not occur till during or after August, nor its lowest, till during or after February, probably in September and March, and this is sufficient to account for the retardation of the extremes in islands so completely surrounded by the open sea. Whether the transparency of the water has any influence in producing this effect, as some allege, we shall not now inquire. During these 33 years, the thermometer was once observed as low as $14\frac{1}{2}^{\circ}$ (on 16th March 1845), and once as high as 75° (on 5th June 1846), but this was without the aid of self-registering thermometers, which have only been used for about three years.

In Table No. II. will be found the mean monthly atmospheric pressure for the last 21 years. This has been registered as long as the temperature, and at the same times and places; but this is noted from a better barometer than was used during the first 12 years, and as that former record was published in the statistical account of Sandwick it need not be repeated here.

Typographical errors, however, crept in there, making the mean height for January for all that period $29^{\circ}939$ inches instead of $29^{\circ}689$, and of August 1834, $28^{\circ}736$ instead of $29^{\circ}736$ inches.

On this table few remarks are necessary, as it does not seem to indicate any great peculiarity. The mean state of the barometer for the last 21 years is $29^{\circ}761$ inches, as noted, or when corrected to 32° , and sea level to enable us to compare it with other places, $29^{\circ}836$ inches. This does not differ materially from its mean height in other parts of Scotland, the mean of about 50 places published by the Scottish Meteorological Society being, for—

		in.		Mean for Sandwick. in.		Difference. in.
1856	-	$29^{\circ}869$	-	$29^{\circ}898$	-	$-^{\circ}029$
1857	-	$29^{\circ}894$	-	$29^{\circ}881$	-	$+^{\circ}013$
1858	-	$29^{\circ}916$	-	$29^{\circ}880$	-	$+^{\circ}036$
Means	-	$29^{\circ}893$	-	$29^{\circ}886$	-	$+^{\circ}007$

the mean of all being $29^{\circ}886$ inches, or a minute decimal $^{\circ}007$ below the other districts.

So far as yet ascertained, therefore, they may be considered equal.

In examining the monthly means of this table, it will be seen that the barometer generally attains its greatest height in May, and gradually descends on each side, the only exception being September, when it takes a rise upward, probably indicating the period of the Orkney "little summer." The gradual descent from the maximum height becomes prominent only in a long series of observations. The same tendency may be perceived in the tables published in the "New Statistical Account" of Sandwick and of St. Andrew's, in Orkney, though the descent is not so regular, and in the latter the greatest height is in June. On the 24th January 1840 the mercury was as low as $27^{\circ}69$ inches, and on 1st February 1841 as high as $30^{\circ}76$ inches, giving a range during these 20 years of $3^{\circ}07$ inches.

In Table No. III. will be found the total quantity of rain at Sandwick Manse for each month during the last 19 years, from which it will be seen that the average annual quantity for that time

is 36'95 inches. This is more than 10 inches above Dr. Barry's estimate, which had been assumed as correct by others without actual measurement. The paucity of observations in other places renders it impossible to say at present whether this is above or below the average for Scotland, and indeed much would depend on the situation of those places from which that average was struck. It will probably be found equal to the average fall in the interior of Scotland and England; below what is stated to fall on the west coast, and above that on the east. If an extensive table now before us is to be relied on, it is about equal to the fall in Applegarth, Liverpool, and Swansea, which is 34 inches; Dumfries and Manchester 36; Langholm, Dover, and Selborne 37; Aberdeenshire 38; while it is decidedly above Edinburgh, which is 26 inches, York 22, and London 20; and below Glasgow, which is 40 inches, Ayrshire 42, Whitehaven 48, Keswick 67, and Eastwaite 86. From the reports of the Meteorological Society, published for 1856, 1857, and 1858, it appears that the average of all their stations for these three years was 32'49 inches, while the average for Orkney for the same years was only 31'23 inches, which makes Orkney appear particularly dry; but it would be unfair to found such a conclusion on so limited a period of observation. They must rather be considered as exceptional years, the two first being the driest in Orkney during the period of registration, so that the crops were injured by excessive drought, while there was excessive rain in more southerly districts, from which the crops there suffered severely.

As in the former tables, so in this of the rain, may be observed in the monthly means a gradation from the minimum to the maximum quantity, which may perhaps be more regular in a longer series of years. Thus May has the least rain, as well as the highest barometer, and the preceding months, embracing the previous December, have more rain the more they precede it. Again, the quantity gradually increases in the succeeding months till October, which is decidedly the wettest, only indicating the "little summer" in September by a somewhat smaller fall than during what are called the "lammas speats" in August. In a table for 15 years, kindly furnished by Dr. Dunbar of Applegarth, this gradation is not so marked. April is rather the driest month there, and the fall is greater in May and the four succeeding months, than in Orkney, but less in the remaining seven. It should be observed, however, that the parish of Sandwick, where these observations have been made, seems to have a greater fall of rain than any other station in Orkney where it has been measured, probably owing to the place of observation lying within two miles of the west coast, where the precipitous hills that bound the islands condense into heavy and frequent showers the vapours of the Atlantic, or of the warm Gulf stream. Thus at the lighthouse in Graemsay, which is about as far west as Sandwick, and in the neighbourhood of the high hills of Hoy, the fall during the last six years, of which I am favoured with a return, is only about half an inch less than that of Sandwick, three years being more and three years less. Again, at the Start lighthouse on the eastern extremity of Orkney, from which I am favoured with a return for 9 years, the mean fall is nearly 12 inches less than in Sandwick. And in Shapinshay, at the residence of David Balfour, Esq., of Balfour and Trenaby, which is about 12 miles E. of Sandwick, and twice as far S.W. of the Start lighthouse, the return which that gentleman has kindly furnished for the last two years shows a fall of only 13'55 inches in 1857, and 23 inches in 1858. The period of observation is yet very short, but it seems to indicate a smaller fall than in almost any other part of Britain.

The direction and force of the wind have also been noted every morning and evening for 33 years, and from the table which we give, No. IV., the number of days that it blew in any direction any of these years, or the prevailing winds for that period, may at once be seen. The west used to be considered the most prevalent wind in Orkney, but from this it appears not to have been so for the period noted. It blew from the W., S.W., S., and S.E. 7,194 days, while from the opposite four points it blew little more than half that time, or 4,154 days. The west wind indeed prevails more than that from any other cardinal point, but the S.E. prevails above it, for if we do it equal justice with the west, by adding 236 days of E.S.E. which were given to the E., and 250 days of S.S.E. which were given to the S., we find 2,612 days of S.E. wind, against the 2,230 days of W., or 382 days in favour of the S.E. There seems to be a group of years when the S.E. is in excess, and then a group when the W. is so. In the first decade it exceeds the W. very little; in the second a great deal; in the third the W. not only seems to prevail, but the restoration of the intermediate points to the S.E. still leaves it in the minority.*

* As nothing is said of the magnetic variation, which is large at the Orkney Islands (nearly $26^{\circ}=2\frac{1}{2}$ points), and as seafaring communities usually refer to the magnetic compass, a re-consideration of these winds, and their relative prevalence, seems advisable.—R. F.

Does Orkney owe much of the mildness of its climate to this prevalence of S. and W. winds? This is not the place to discuss the question, but much light will be thrown on it and other subjects by examining the table, and comparing it with the others.

The institution of the Scottish Meteorological Society, and the publication of their reports, promise to illustrate the meteorology of Scotland, from the great number of observers using similar instruments, placed in similar positions, and at the same hours, thus furnishing excellent means of comparison. The register at Sandwick has been kept uniformly with their other stations for the three years of their publication, and we shall add the table No. V., being an abstract of meteorological observations in Orkney for 1857, along with a similar one for the same year (No. VI.), condensed from all their stations, to allow a comparison to be made between the climate of Orkney and that of Scotland in general. It would indeed be absurd to form a decided opinion from the observations of one year; but it would be as absurd to shut our eyes to the light which they afford us, when they corroborate and illustrate our former observations, and throw much light on other points not previously observed.

The difference in the state of the barometer, by these tables, is too trifling to deserve notice. Orkney was a little below the average for Scotland in 1857, but it was more above it the previous year.

The columns for self-registering thermometers prove the equability of the Orkney climate much more clearly than the previous table of temperature by the common thermometer. It may be seen that in one part of Scotland the greatest heat of summer was $25\frac{1}{2}$ degrees above that of Orkney, and the greatest cold of winter 21 degrees below it, thus showing a much wider range of temperature; but that is not a fair comparison, as it refers to only a single observation at one place only. The columns, however, showing the "means of all the highest" and lowest, with the mean daily range, may be consulted with advantage; for though the extremes of different districts are reduced by being thus taken together, yet they show that June, July, and August are at an average $7\cdot6^{\circ}$ hotter during the day, and seven months are colder during the night, throughout Scotland, than in Orkney, while the latter has a smaller daily range of temperature every month, and in June the difference is 10° .

By these tables the temperature of Orkney seems to be about half a degree lower than the other districts, but it was at least equal in 1856. The mean temperature of Orkney for 1857 is proved to be $47\cdot4^{\circ}$, by the entire agreement of the self-registering thermometers, the dry bulb one and that 12 inches deep in the soil. The temperature of the deepest spring may also be considered a proof of its correctness, and of that of the mean annual temperature formerly stated, for though it is not much influenced by the remarkable mildness of the latter months of that year, yet it is nearly half a degree higher than the mean annual temperature.

The hygrometer, which is Mason's, shows ($0\cdot3^{\circ}$) less evaporation in Orkney than in the other districts. In noticing the deductions, calculated from Glaisher's tables, we may pass without remark the minute differences in the "dew point" and in the "elastic force of vapour," but we cannot thus pass the very unexpected result of this first year's observations, that the humidity of the atmosphere in Orkney is exactly equal to the average of Scotland. These islands have always been characterized as damp; the surrounding water led us readily to believe it; salt and sugar are so apt to become damp, and steel to rust, that few could anticipate such a result. We were, however, in some measure prepared for it, as during the latter half of the previous year, when these hygrometric observations were first made, the humidity in Orkney was only $84\cdot1$, while the average of Scotland was $84\cdot8$. Perhaps the quantity of salt in the atmosphere from the sea spray may partly account for these effects of humidity. In the column showing the number of rainy days in each month, it appears that the number in Orkney was 198, giving an average of 16 to each month, while in the average of all the districts it was only 163, giving an average of 14 to a month. That the difference should be on this side might be anticipated, from the latitude of Orkney, and the peculiarity of its situation, and we believe that this difference will be rather increased than diminished by a long series of observations, for in 1856 the number was 212 in Orkney, and only 160 over Scotland, giving 52 more to Orkney.

It may be interesting to compare the columns for wind with the others, as it will illustrate the peculiarity of the season. Thus the prevailing W. and S.W. winds in July, along with the fall of the barometer, will explain the cause of the rain which fell then, and saved the crops which had suffered exceedingly from the unprecedented drought of the previous three months. The mean pressure of the wind in Orkney seems to have exceeded that in the other districts by a decimal ($0\cdot19^{\circ}$); but as no anemometer was used, this can only be viewed as an approximation to the truth.

The only column remaining to be considered is that containing the mean temperature of the sea, from observations made at least once a week, and generally more frequently.* Having already remarked some points regarding it, we now call attention to the fact, that the mean temperature of the sea for the year is $49^{\circ}6'$, or $2^{\circ}2'$ above that of the air and the soil, and nearly 3° above that of our best springs. It is even above the mean temperature of any year yet recorded, and a little above the mean temperature of the sea around the coast of Scotland. This seems one of the strongest proofs that the Gulf stream reaches the shores of Orkney, or that some stream from a warmer climate, by whatever name it may be called, raises the temperature of the sea beyond what it could be raised by the power of the sun in Orkney, and higher than it raises that of the air, the soil, or the springs. Without such a stream, we are not aware that the mean temperature of the sea in other places exceeds that of all other things showing the mean temperature of the localities. As this stream carries to Orkney, along with its increased temperature, productions of the West Indies, the gulf weed, bottles thrown overboard on the passage between Britain and America, &c., we think its origin proved, and know no other satisfactory explanation of all the phenomena.

The Aurora Borealis is sometimes very brilliant in Orkney, and frequently gives more or less light during the winter nights.

Sun-pillars are occasionally seen about sunset and sunrise in spring. They were first remarked in 1852, when they were particularly fine, and appeared six times at sunset in April alone.

Waterspouts are very rare. The writer has only seen one, which passed over the sea about a mile east of Stromness on 12th September 1839, and the upper portion caught his attention in Sandwick, six miles off, appearing like a dark funnel-shaped cloud, hanging down from other dark clouds.

From the preceding tables and remarks it appears that the mean annual temperature of Orkney is equal to that on the southern border of Scotland, but much more equable, neither so hot in summer nor so cold in winter; that the mean annual quantity of rain is about $36\frac{1}{2}$ inches, probably near the average of Scotland, and falling on a greater number of days, though the humidity of the atmosphere is not greater, so far as meteorological instruments have yet ascertained; that winds from the S. and W. and neighbouring points prevail much more than those from the opposite quarters, and probably tend much to promote the mildness of the climate; but this is ascribed principally to the surrounding ocean, the mean temperature of which was in 1857 fully 2° , and in 1858 more than 3° above that of the air; and much more in winter, so that it greatly elevates the temperature then, and depresses a little that of summer. The Orkney crops of the more hardy kinds of grain, as oats, bere, and barley, are equal to those of other parts of Scotland. Its potatoes are famous in the southern markets for seed; as the Orkney beds, grown in Orkney, are less apt to take the disease, when planted in the south, than any other variety; but green crop is that in which it particularly excels.

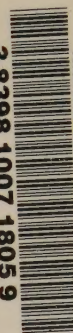
The gardens are scarcely behind those in the south for the more hardy kinds of vegetables, fruits, and flowers. Apples do not grow well as standards, but thrive pretty well as wall trees. Pears and cherries grow, but are not very productive. Black currants thrive, even better than in the south. Red and white currants and strawberries grow very well, but gooseberries do not always ripen. All the more hardy annuals, and perennials, met with in the south, also adorn the Orkney gardens.

In short, the climate of Orkney is such that it might form a pleasant retreat in summer from the sultry and dusty atmosphere of large towns, and might even be beneficial to some invalids.

* I beg to acknowledge my obligations to Mr. William Watt, who resides near the sea shore, for these observations on the temperature of the Atlantic, and to Mr. J. M. Aim, for much assistance in calculating monthly means and copying reports, which are sent monthly to the Scottish Meteorological Society, and to the Austrian and Belgian Governments.



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